

KARTHIK KUMAR D

Founder and Chief Operating Officer

Viyen Biotech LLP

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Personal Profile

Father's name	: DHANABALAN N
Date of Birth	: 16/07/1996
Age	: 27 years
Sex	: Male
Nationality	: Indian
Marital Status	: Unmarried
Languages Known (To Speak, Write and Read)	: English and Tamil

Professional Experience Summary

- 1) **Current Position Aug 2020 to till: Co-Founder and Chief Operating Officer @ Viyen Biotech LLP, Coimbatore, Tamilnadu, India.** [CIN: AAW – 7104; MSME: UDYAM-TN-03-0042192; Startup India – DIPP85709; Startup Tamil Nadu STUPTN504165]
Job responsibility: Chief in project operations, strategic developer, Administration, Innovative Product development.
- 2) **Additional Position: April 2020 to till date: Project Coordinator @ Nilgiris Education and Research Foundation, The Nilgiris, Tamilnadu, India.** **Job responsibility:** Research Data processing and project development.

Industrial Board memberships

✚ **Medford Technologies Pvt Ltd, Salem, Tamilnadu** (Health care Instrumentation R&D and Manufacturing Company)

Role and responsibilities: Lifetime Advisory Board Member (From June 2023 to till date)

- Developed and implemented new policies for financial management and transparency.
- Represented the organization at various community events and meetings.
- Led fundraising efforts, and Intellectual inputs to build a product and sourcing the license.

✚ **Falconx Edtech Solutions Pvt Ltd, Coimbatore, Tamilnadu** (Educational virtual classroom technology platform)

Role and responsibilities: Advisory Board Member (From March 2022 to till date)

- Provide strategic advice and counsel to the Board of Directors and senior management team on matters related to trends in the ed-tech market and technology.
- Share knowledge and insights at quarterly Advisory Board meetings and participate in ad hoc discussions as needed.
- Act as a sounding board for new initiatives and projects.

**🚩 Erode Mettukadai Coconut Farmer Producer Company Limited, Erode, Tamilnadu
(Framer producing organisation – Agri Manufacturing Industry)**

Role and responsibilities: Technical Advisory Board member (March 2023 to till date)

- Technical Training and strategic advising to the company farmer members.
- Visit project sites with our partners to meet with beneficiaries to discuss project needs and funding requirements.
- Acquire strong relationships with regional personnel. Resolve any technical problems (or) scientific challenges in collaboration with our project networks.

Academic Performance

M.Sc., Biotechnology 72% (2018-2020)

Institute: Kongunadu Arts and Science College, Coimbatore.

University: Bharathiar University

PG Diploma in Biodiversity 79.8% (2018-2019)

Institute: Kongunadu Arts and Science College, Coimbatore

University: Bharathiar University

B.Sc., Biotechnology 52.75% (2014-2017)

Institute: CMS College of Science and Commerce, Coimbatore

University: Bharathiar University

Higher Secondary 66.5% (2012-2014)

Institute : Corporation Higher Secondary School, Coimbatore

Board : Tamilnadu State Board

Secondary School leaving Certificate 69.2% (2011-2012)

Institute: Corporation Higher Secondary School, Coimbatore

Board: Tamilnadu State Board

Projects and Dissertation Titles

- ✓ **Master of Science:** Green Synthesis of Chitosan Doped Copper Oxide Nano Materials and its Biomedical and environmental, applications.
- ✓ **Post Graduate Diploma:** Ethno botanical Survey on Oomathambadi Village Irular Tribes, Anaikatti, Palakkad District, Kerala.
- ✓ **Mini Project :** Mini Project entitled on “Application of DNA Technology in Wildlife Forensics”.

Fundings and Fellowships

- 1) **Indo Malaysia matchmaking research fund-2024** form the collaboration between INTI-International University, Malaysia and Viyen Biotech LLP, India. Project title of Novel biomaterial for manifold applications.
- 2) **“Pre-seed stage Agri-Innovation Grant - UPJA 2022”** (selected as a top 20 startup among 540 Agri-tech startups in India). provided by RKVY RAFTAAR scheme **Indian Agriculture Research Institute, supported by Ministry of Agriculture & Farmers' Welfare**, New Delhi, India.
- 3) **Placed as Summer Research Fellow** by **CCMB Summer Training Programme – 2019**. At Wildlife Forensic Division, **Laboratory for the Conservation of**

Endangered Species (LaCONES), Annexe-I Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India.

- 4) Selected for “**INSPIRED AWARD-2012 Fellowship**”. Implementing by the **Department of Science and Technology** and Tamilnadu Science and Technology Centre on Innovation in Science Pursuit for Inspired Research (INSPIRE) National Programme.

Publications and Book chapters:

- 1) S. Niranjana. S. Heena. **D. Karthikkumar**, B. K. Dhar, V. H. Cong, L. S. Wong, R. Ranjith Kumar. Mitigating Global Challenges: Harnessing Green Synthesized Nanomaterials for Sustainable Crop Production Systems, **Global Challenges**, (2023) [SCI, IF – 5.135]
- 2) Piyush Kumar Gupta, **D. KarthikKumar**, M. Thaveena, Soumya Pandit, Somya Sinha, R. Ranjithkumar, Walaa F. Alsanie and Vijay Kumar Thakur. Synthesis, Characterization and Remedial Action of Biogenic Silver Nanoparticles and Chitosan-Silver Nanoparticles against Bacterial Pathogens. **Journal of Renewable Materials 2022** [SCI-IF – 3.0]
- 3) **Book Chapter:** V. Bhuvaneshwari, Nirmal Kumar Ramasamy, S. Idhaya Kumar, S. Kalaivani, D. Vaidehi, and **D. KarthikKumar**, Copper Nanostructures: Next-Generation of Agrochemicals for Sustainable Agro ecosystems. Chapter 14: **Antimicrobial activity of copper nanomaterials: Current status and future perspectives** [Pg 341-358].
- 4) **Karthikkumar .D**, B. Divya, R. Ranjithkumar, B. Chandar Shekar, Ling Shing Wong and Sinouvassane Djearmane, Synthesis and characterization of magnesium doped ferric sulphate (Mg-Fe₂SO₃NPs) nanoparticles for agriculture applications, **Journal of Experimental Biology and Agricultural Sciences, 2021** [Scopus]
- 5) L.S. Niranjana, M. Mathankumar, **D.Karthikkumar**, R. Ranjithkumar, B. Chandar Shekar, Ling Shing Wong and Sinouvassane Djearmane, Preparation and characterization of calcium phosphate chitosan nanocomposite as plant growth promoter, **Journal of Experimental Biology and Agricultural Sciences, 2021** [Scopus]

Invitees and Panellists

- 1) **Jury member** for idea scrutinizing of **Tamil Nadu Student Innovators - 2021** for ideation camp organized by **Entrepreneurship Development & Innovation Institute (EDII-TN)** Tamil Nadu, India.
- 2) Act as an **External expert** in the **Internal Hackathon** at PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu, for the ideation and validation of the team members for **Smart India Hackathon – 2022** participants on 23rd March 2022.
- 3) **External Jury** in the Demo Day Event on “**Business plan/prototype developed and linkage with Innovation ambassadors for mentorship**” at PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu, for the ideation and validation of the team members for **Smart India Hackathon – 2022** on 20th May 2022.
- 4) Act as an **Expert member** of “**Coffee Table Discussion with Alumni Entrepreneurs on Business Challenges**” organised by the **Centre for Innovation, Incubation & Entrepreneurship Development (CIIED)**, PSGR Krishnammal College for women on 4th August 2022.

- 5) Deliver a Guest talk under the title of **“Innovation and Entrepreneurship”** organized by **Happy Valley Business School** and sponsored by Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu on 23rd August 2022.
- 6) Deliver a Guest talk on **“Promoting Entrepreneurship Among the Graduating Students”** organized by **SNS College of Pharmacy** sponsored by Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu on 26th August 2022.
- 7) **External Jury member** in the Startup Pitch Content in the **“Centre for Innovation, Incubation and Entrepreneurship Development (CIED)”** at PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu on 03th September 2022.
- 8) **External Jury Member** for the **MSME Idea Hackathon 2.0** on 10th October 2022, Organised by **Host Business Incubator (HBI)** at **Sri Ramakrishna Engineering College, Coimbatore**, Tamil Nadu.
- 9) **Mentor** (south zone of Tamil Nadu) for **School Innovator Development Project – 2022** for ideation camp organized by UPSHIFT & Entrepreneurship Development & Innovation Institute (EDII-TN) Tamil Nadu, on 27th & 28th January 2023 at **Anna University Regional Campus, Coimbatore**, Tamil Nadu, India.
- 10) Act as a **Pitching Panellist** for **Innovation Design and Entrepreneurship (IDE) BOOT CAMP (PHASE- II) Organised by Ministry of Education Innovation Cell and AICTE** on 2nd Feb 2024 conducted at Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu.

Memberships in Professional Bodies

- 1) **Lifetime Membership** in **Indian Science Congress Association – Kolkata, India.**
- 2) **India Network Coordinator** in **Global Sustainable Future Network – GSFN, United Kingdom**
- 3) **Annual Membership** in the **International Society for Development and Sustainability (ISDS) Commercial Corporation, Japan**

Certifications

- 1) Completed Online Conservation Course from **National Geographic Society and United for Wildlife** by Exploring Conservation Programme entitled **“UNDERSTANDING OF ILLEGAL WILDLIFE TRADE”**.
- 2) Completed an Online Certificate Conservation Courses entitled on Introduction to the IUCN Red List” Assessments” Provided by **International Union for the Conservation of Nature and Natural Resources (IUCN)** in collaboration with The Nature Conservancy.
- 3) Successfully Completed Online **“Nano Diploma in Agriculture”** Course from Edapt Futuristic learning application.
- 4) Completed a **one week e-Short term Course on “SERICULTURE”** from The Department of Zoology, Shri Vyankatesh Arts, Commerce and Science College, Buldhana, Maharashtra.
- 5) Complete a **“Seven day Entrepreneurship Skill Development Online Course on Ornamental Fishes – Production, Trade and Technology Transfer”** from Department of Zoology (Diploma in Ornamental Fish production and Trade), KASC, Coimbatore conducted on 3 rd Aug to 9 th 2020

Paper / Poster Presentation

International Level Conference/Seminars

- ✓ Presented a paper entitled **“Synthesis and characterization of Magnesium Doped Ferric Sulphate (Mg-Fe₂so₄) nanoparticles for Agriculture application”** in Virtual global Congress on sustainable Growth & Development 2021-Health and Life Sciences on October 08-09, 2021.
- ✓ Presented a paper entitled **“Role of Forensics in Wildlife Conservation – A Review”** and awarded **Best E-oral presentation award** in International Virtual Conference on Biology in 21st Century: Transformation of Biological Sciences in support the sustainable Development Goals Organized by Indian Science Congress Association Coimbatore chapter and Department of zoology, KASC, Coimbatore, Tamil Nadu, India on 23rd to 26th August , 2020.
- ✓ Presented a review poster presentation on **“Precision Medicines and its future”** at International Conference on Impact of Innovation in Science and Technology for Societal Development (IISTSD - 2019) jointly organized by KASC, Coimbatore and Mahasarakham University, Thailand.
- ✓ Presented a poster presentation titled **“In-silico screening of p53 and Mdm-2 as potential drug target for anti-cancer drugs and its role in therapeutics”** in International Seminar on Advances in Genomics and Proteomics Organized by Department of Biotechnology at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 7th August, 2018.

National Level

- ✓ Presented a research paper titled **“Antioxidant potential of polymer encapsulated mustard oil nano emulsion”** at National conference on Basic and Applied Biological Sciences – 2018. Organized by the Department of Botany and Biochemistry held at Bharathiar University, Coimbatore.

Participated Conferences and Seminars

International Level

- ✓ Attended **“107th Indian Science Congress Conference”** at University of Agricultural Sciences, Bangalore, and Karnataka from January 3 to 7, 2020.
- ✓ Participated International Conference on **“Frontiers in Biotechnology”** Organised by Department of Biotechnology, Nandha Arts and Science College, Erode, Tamilnadu, On 3rd February 2017.

National Level

- Attended Indian Science Congress Association, Kolkata Sponsored **“National level Conference on Empowerment of Rural Communities Through Innovations In Science And Technology”** Organized by Kongunadu Arts and Science College, Coimbatore On 21st and 22nd February, 2020.
- Participated in ISCA Sponsored One day National Seminar on **“Science and Technology for Insect Diversity Conservation and Agricultural Progressive”**

Organized by Department of Zoology, Kongunadu Arts and Science College, Coimbatore held on 29th July 2019.

Workshops Attended

International Level

- Participated **India-UK Extension Workshop on “Knowledge transfer on the sustainability of innovative wastewater treatment technologies to India-IV”** at Arulpuram Common Effluent Treatment Plant, Tirupur on 06th August, 2019.
- Participated **India-UK Workshop on “Knowledge Transfer on the Sustainability of Innovative Water Quality Monitoring Technologies to India-III: Circular Economy, Graphene related technologies”** at Kongunadu Arts and Science College, Coimbatore on 13th March, 2019.
- Attended **India-UK Workshop on “Knowledge Transfer on the Sustainability of Innovative wastewater treatment Technologies to India-II”** held at Arulpuram common Effluent Treatment Plant, Tirupur on 04th August, 2018.

National Level

- Participated in one day National level Workshop on **“Algal Biotechnology Techniques and Prospects for the Sustainable Bioeconomy”** sponsored by ISCA Coimbatore chapter on 24th July 2019.
- Participated in the Workshop on **“Conservation and Management Strategies of Native Cattle and Culture”** organized by the Department of Zoology and Eco club, Kongunadu arts and Science College during 24th and 25th of January 2019.
- Participated Indian Science Congress Association Sponsored One day workshop on **“Plant Genetic Transformation”** at Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India on 8th December, 2018.
- Attended ISCA Coimbatore Chapter Sponsored One day Workshop on **“DNA taxonomy and phylogeny”** Organized by Department of Biotechnology KASC, Coimbatore, Tamilnadu, India on 5th October 2018.
- Participated Indian Science Congress Association – Coimbatore chapter Sponsored One day workshop on **“Bio statistical Analysis through SPSS Software Package”** organized by the Department of Biotechnology, Kongunadu Arts and Science College during 8th October 2018.
- Participated One day Workshop on **“Gene Expression analysis using Real time PCR”** Organized by Department of Biotechnology, KASC, Coimbatore on 04th September, 2018.
- Attended Science Academies Lecture workshop on **“Modern Approaches towards Biodiversity, Bioprospection and Conservation”** (MABBC) Organized by the Department of Biochemistry KASC, Coimbatore, Tamilnadu on 20th & 21st Aug 2018.
- Attended the Science Academies Lecture Workshop on **“Recent Advances in Biochemistry”** Organized by Department of Biochemistry, Dr. N.G.P Arts and Science College, Coimbatore on 10th and 11th August 2018.
- Participated National Workshop on **“Chemistry Popularization”** Organized by PSG Community Radio and Association of Chemistry Teachers, Homi Bhabha Centre for

Science Education, Mumbai held at PSG College of Technology, Coimbatore, on 28th January,2013.

Extracurricular activities

Academic Competitions Achievements

- ✓ **Secured First Prize** in the Science Exhibition on **“SCI MEET 2013”** Organized by PG and Research Department of Biotechnology and Microbiology held at Hindusthan College of Arts and Science, Coimbatore on 25th October 2013.
- ✓ **Secured First place** in **“Solid Waste Management Awareness Competition- 2012”**. Organized by Wild Wing Society, Held at Corporation Higher Secondary School, Peelamedu – Coimbatore 5 to 12th February 2012.

Participated

- ✓ Participated **“Inter- School Quiz Competition 2011”**. Organized by PSGR Krishnammal College for Women, Coimbatore on 13th Jan2011.
- ✓ Participated **“Thulir/ Janthar manthar Inter- School Quiz Competition 2010”** Organised by Tamilnadu Science Association. Held at PSG sarvajana Higher Secondary School – Peelamedu, Coimbatore on 24th July2010.
- ✓ Participated **“Coimbatore District level Inter school Science Exhibition-2010”** Organized by Tamilnadu Education Board held at PSG sarvajana higher secondary school, Peelamedu, Coimbatore on 19th and 20th Oct 2010.

National Cadet Corps Achievements

- Successfully Completed Final year NCC **“C” Certificate Examination and Secured ‘B’ GRADE**. Examination held at PSG Arts and Science College in the year 2017 under the authority of Ministry of Defense, Government of India.
- Successfully Completed NCC **“B” Certificate Examination and Secured ‘B’ GRADE**. Examination held in 2016 under the authority of Ministry of Defence, Government of India.
- Selected and Successfully Completed 10 days **“NCC NATIONAL GAMES TRAINING CAMP- 2016”** Conducted by 1 (TN) R&V SQN NCC held at YMCA Nandanam, Chennai, Tamilnadu from 05th to 14thOct 2016.
- Attended 10 days **“IGC Launch and National Games Training – I camp”** for SD Cadets Conducted by 1(TN) BATTALION NCC. Held at YMCA COLLEGE OF PHYSICAL EDUCATION, Nandanam, Chennai from 17th to 26th Sep 2016.
- Selected and complete 10 days **“NCC Intergroup Competition Coimbatore Handball Sports Team Selection Camp”** Conducted by 2(TN) COMPOSITE TECHNICAL COMPANY, COIMBATORE, held at Karpagam Institute of Technology, Coimbatore. From 09th to 18th July 2016.
- Appointed as a **“NCC Coimbatore Group Men’s Handball team Captain” and Secured Second Place** in a **“Tamilnadu Directorate State level Inter Group Competition-2016”** at VHNSN College, Virudhunagar from 02 to 11th Aug 2016.

Other Attended Camp

- Attended 10 days “**NCC Combined Annual Training Camp**” Conducted by 6 TAMILNADU MEDICAL COMPANY NCC COIMBATORE, held at Sree Ramu College of Arts and Science, Vedasenthur, Pollachi. From 03 to 12 Jun 2015.
- Attended 10 days “**Republic day Selection Camp**” Conducted by 2(TN) COMPOSITE TECHNICAL COMPANY, COIMBATORE, held at Karpagam University, Coimbatore. From 20th to 29th July 2015.
- Attended 10 days “**NCC Combined Annual Training Camp**” Conducted by 6 TAMILNADU MEDICAL COMPANY NCC COIMBATORE, held at SNR Sons College, Coimbatore. From 05th to 14th June 2016.

Sports Achievements

National Level

- **Represented and Secured GOLD MEDAL position in 1 st Place. “Tamilnadu state above 19 yrs Men’s Handball Team” in “RGOI RURAL GAMES NATIONAL FEDERATION CUP-2017”** held at “Khelgaon Indoor Stadium”, Ranchi, Jharkhand, India. On 25th and 26th December 2017.
- **Represented and Secured GOLD MEDAL. “Tamilnadu state above 19 yrs Men’s Handball Team” in “UNITED INDIA GAMES ASSOCIATION NATIONAL CHAMPIONSHIP”** Held at Dayanand Bandoorkar kriba Sankool Peddem – Mapusa, Goa, India. On 6 to 7th October 2017.
- **Represented and Lead as a Captain on “Tamilnadu, Pondicherry, and Andaman NCC Directorate Handball Team in NCC NATIONAL GAMES - 2016”** held at New Delhi, India. On 15th October to 26th October 2016
- **Represented “Tirupur District under 21 Men’s Handball Team” in a STATE HANDBALL CHAMPIONSHIP - 2017** Conducted by Tamilnadu Handball Association held at Ruben College of Arts and Sceince College, Nagarcoil, On 1st April 2017.
- **Represented and Secured 1st Position on Tirupur District above 19 yrs Men’s Handball Team” in “RGOI RURAL GAMES NATIONAL FEDERATION CUP 2017”** Selection match for state team held at “Nammakkal District SDAT Ground”, Tamilnadu On 23rd July 2017.
- **Qualified “GRADE-3 State Level Referee Clinical Examination”** in a Tamilnadu Handball Association. Exam Conducted at Jenneys College of Physical Education, Trichy, Tamilnadu, On 12th & 13th May 2018.
- **Qualified “GRADE-4 State Level Referee Clinical Examination”** in a Tamilnadu Handball Association. Exam Conducted by Kumaraguru College of Technology, Coimbatore, Tamilnadu, On 25th July 2016. Intramural Events
- **Lead as a Captain and Secured First Position on “Departmental Handball team in Annual Intramural Sports MEET - 2017”** held at CMS College of Science and Commerce, Coimbatore, on 04th March 2017.
- **Represented and Secured Second Position. “Departmental Handball team in Annual Intramural Sports MEET - 2015”** held at CMS College of Science and Commerce, Coimbatore, on 17th February 2015.

Events Organized and Volunteering

- Organized Member of Technical Review Committee in Virtual Global Congress on **sustainable Growth & Development 2021-Health and Life Sciences** on October 08- 09, 2021.
- Actively Involved as a Student Innovation Coordinator, **Institution Innovation Council, Organized an exhibition on “STARTUPS” Jointly Organized with KASC I Hub,** Coimbatore on 04th December 2019.
- Actively involved as a Student Organizer in the **“PUVIYAMUDHAM” World Water and Forest day Celebrations – 2019** Organized by PG and Research Department of Biotechnology, Kongunadu arts and Science College – Coimbatore on 23rd March 2019.

Volunteering

- Actively support as a **GSFN active Coordinator and got recognized as Silver Certificate of Appreciation** at Global Sustainable Forum Networking Annual Conference 10th December, 2021.
- Actively involved as a Volunteer in Organizing the Two-day National Conference on **“Empowerment of Rural Communities through Innovations in Science and Technology”** held on 21st and 22nd February, 2020.
- Actively Participated in the **II All India Tiger, Co-Predator, Prey Species and Habitat Monitoring Phase I Data Collection and Population Estimation,** Anamalai Tiger Reserve, Pollachi, 17th – 24th December 2018.
- Actively Involved as a Volunteer on 4 day’s **“All India Synchronized Wild Elephant Census” – 2010.** Held at Sathyamangalam Tiger Reserved Forest, Erode, Tamilnadu.
- Actively involved as a volunteer for Creating awareness and assisting in raising funds for the elderly people in a **“HELP AGE INDIA Organization – 2008”.**

Awareness events

- Attended an Awareness Workshop on **“Bio composting and Bio enzyme production for Rural Community”** Organized by KASC I-Hub, Kongunadu Arts and Science College, Coimbatore on 22nd December 2019.
- Participated **“Native Tree Plantation Program”** Organized by the Eco Club of Kongunadu Arts and Science College at Coimbatore on 28th July 2019.
- Actively participated in the **“International Day against Drug Abuse and Illicit Trafficking”- 26th June 2016.** Organized by Tamilnadu Police Department held at Coimbatore.
- Participated in the **“Vasippom Nesippom 2014- A Grand Rally for Promoting Reading Habits”**, Organized by the Society for the Advancement of Library an Information Science (SALIS) Puthiya Thalaimurai Mandram on 15th Nov 2014.
- Contributed to **“Tree sapling development activities (Project Green Hands)”** Organized by Isha Foundation at Maruthamalai Devasthanam School, Coimbatore on 17th August 2012.

Declaration

I hereby declare that the information given above is correct to the best of my knowledge and belief

Place: Coimbatore

Yours Sincerely

(KARTHIKKUMAR D)