

# VISAL BABY T

*Specialist in Remote Sensing, GIS,  
Agrometeorology and Precision  
Agriculture*

## CONTACT

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## LANGUAGES

**English** (Full professional proficiency)

**Malayalam** (Native proficiency)

**Hindi** (Professional working proficiency)

**Tamil** (Limited working proficiency)

## ORGANIZATIONS

International Land Use Society

All India Agricultural Students

Association (AIASA)

National Service Scheme (NSS)

Kerala Fencing Association-Fencer

## ACCOMPLISHMENTS

- ✓ Presented thesis in International Land Use Symposium 2023 and submitted research paper in Journal of Geovisualization and Spatial Analysis
- ✓ Participated in the International meet on Precision Agriculture Technologies (IPAT-2022) and national seminars on sustainable agriculture and disaster management
- ✓ Represented KAU and PAU in All India Inter University Fencing Championship, Silver and Bronze Medallist in Kerala State Senior Fencing Championship. Achieved 3<sup>rd</sup> in KAU Inter-collegiate Arts Festival for Drama
- ✓ 2 and 4-Wheeler Driving License
- ✓ Swimming Certificate
- ✓ My YouTube videos:  
<https://youtu.be/sBt-ppgm5qY>  
<https://youtu.be/m3KsCNWZ8M4>

## REFERENCES

**Dr. Nilesh Biwalkar**

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## PROFESSIONAL SUMMARY

Passionate about leveraging the latest technologies for sustainable environmental development and precision agriculture. Proficient in spatial technologies for diverse applications including agriculture, forestry, urban development, climate change, environmental sustainability, land use and land cover, disaster management, soil management, oceanography and skilled in developing spatial decision support systems.

## EXPERIENCE

**Associate Solution Leader at Brane Enterprises** *Jan. 2024 – Sept. 2024*

- **Collaborated with international experts** from IIT Kharagpur, Agricultural University of Athens, International Center for Bio saline Agriculture, and Georgia Southern University on research initiatives
- **Developed soil sampling methodology (as a part of Digital Soil Mapping)** for Telangana and UAE using conditioned Latin hypercube model in RStudio
- **Spearheaded project proposals leveraging spectral analysis, hyperspectral imaging and AI/ML.** Developed proposals on sensor-based soil analysis techniques, plant and soil spectral libraries, soil degradation simulations and crop health and yield forecasting / monitoring

## EDUCATION

**M.Tech. Remote Sensing & GIS (OGPA - 7.90)**

*Oct. 2023*

College of Agricultural Engineering & Technology, Ludhiana

Punjab Agricultural University (PAU), Punjab Remote Sensing Centre

Minor Subject: Agricultural Meteorology

**B.Sc. (Hons.) Agriculture (OGPA - 7.66)**

*June 2021*

Govt. College of Agriculture, Padannakkad

Kerala Agricultural University (KAU)

4-year professional course

## SKILL HIGHLIGHTS

- Scientific & Precision Agriculturist, GIS Expert
- Pest, Disease & Nutrient Identification & Management
- Project Management
- Design & Layout of Gardens
- Communication and Writing
- **Proficient in GIS software** (QGIS, ArcGIS, ERDAS, ENVI, SNAP, Grass GIS, Saga GIS) and **data analysis tools** (RStudio, PostGIS, MySQL). Skilled in Microsoft Office Suite, Blue Java, internet research and navigation abilities

## PROJECTS & TRAININGS

- Conducted **spatio-temporal analysis of urban growth and its impact on Kole wetlands in Thrissur district for my thesis.** Assessed urbanization patterns and land-use/land-cover changes over 2000-2023
- Completed specialized training courses in **remote sensing and GIS applications for agricultural water management and atmospheric hazards** from the Indian Institute of Remote Sensing (IIRS)
- Gained practical experience in agriculture through 6-month “**Rural Awareness Work Experience & Agro-Industrial Attachment**” program and a subsequent 6-month experiential learning program focused on “**Commercial Vegetable Production in Polyhouse & Quality Assurance of Manures, Fertilizers & Agrochemicals**”
- Completed 2 months **agriculture internship** focusing on research and related activities at Dewrty Foundation
- **Developed farm and development plans** for farmers and Nileshwar municipality respectively. Conducted soil testing & **provided soil health cards** to farmers
- **Expanded expertise in GIS, remote sensing, spatial analysis, and soil modeling** through Udemy courses. **Upskilled proficiency in QGIS, Google Earth Engine, R and ArcGIS.** Strengthened soft skills in design thinking and communication