

NIKHIL V

[DrNikhilV](#) | [Nikhil Venkataraj](#) | [Nikhil V](#) | nikhilvenkataraj@gmail.com | [+91 9176681605](#)

EDUCATION

2022 - Present	Bachelor of Technology in Artificial Intelligence at Amrita Vishwa Vidyapeetham, Chennai	GPA: 9.16/10.0
2022	Higher Secondary School at D.A.V. School, Chennai	91%

SKILLS

- **Areas of Interest:** Generative AI, Computer Vision for Healthcare and Drone Systems, Front-End Development, Image Processing
- **Relevant Coursework:** Machine Learning and Deep Learning, Computer Vision and Image Processing, Big Data Analytics, Probabilistic Reasoning, Data Structures and Algorithms, Big Data Analytics, DBMS
- **Certifications:** AWS Academy Cloud Architecting and Cloud Foundations by AWS | Deep Learning by DeepLearning.AI | Basics of Machine Learning by Udemy
- **Languages and Frameworks:** C, Python, SQL, HTML, CSS, Matplotlib, TensorFlow, NumPy, OpenCV, Hadoop, Spark, ROS, Linux
- **Tools and Technologies:** MS Office, GitHub, Git, Figma, Canva, VS Code, MATLAB, MySQL, AWS
- **Soft Skills:** Effective Communication, Critical Thinking, Time Management, Adaptability

PROJECTS

Airborne Heavy Metals Analysis: Regional Emissions and Health Implications [GitHub](#)

- Conducted a comprehensive analysis of airborne heavy metal pollution and health impacts, focusing on toxic elements.
- Identified high-risk areas, offering insights to inform public health policies and guide targeted interventions.

Brain Tumor Classification using Vision Transformers

- Utilized CNN and Vision Transformers to classify brain tumors from MRI images, achieving a top accuracy of 97.43%.
- Proposed a robust approach to neuro-oncology diagnostics, enhancing clinical decision-making and patient care.

Land Use and Land Cover Classification [GitHub](#)

- Developed a ResNet-based land classification model for satellite imagery, achieving 92% accuracy.
- Applied transfer learning and data augmentation to improve model performance and generalization, supporting real-world urban planning and agriculture applications.

LEADERSHIP EXPERIENCE

Mentor, AWS Cloud Club, Amrita Vishwa Vidyapeetham May 2024 - Present

Facilitated learning experiences for students within the AWS Cloud Club, focusing on practical applications of cloud services

ACHEIVEMENTS AND VOLUNTEER EXPERIENCE

Autonomous Drone Development Challenge 2024 by SAEINDIA KCG College of Technology, Chennai

- Achieved third-place overall performance and was awarded a cash prize of 20,000 for the outstanding performance of the team.
- Team member, DART (Drone Aviation and Reconnaissance Team), Contributed to the design and development of an autonomous drone, leading to a successful competition entry.

Active Participant and Winner in Various Inter-College Events and Hackathons Chennai, India

- Achieved First Place in Tech Trek, SRM Institute of Science and Technology (SRMIST)
- Secured First Place in Fandom Quiz, College of Engineering, Guindy (CEG)
- Finalist in SUSTAIN-A-THON 2024, organized by Indian Oil Corporation

Volunteered at Sevalaya as a part of 'Sevanavaram' Initiative (Sep 2023) Tiruvallur, Chennai