

NIKHIL V

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WORK 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

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 like arsenic, lead, mercury, and cadmium.
- Identified high-risk areas and vulnerable populations, offering insights to inform public health policies and guide targeted interventions.

Brain Tumor Classification using Vision Transformers

[GitHub](#)

- Utilized Convolutional Neural Networks (CNN) and Vision Transformers (ViT) to classify brain tumors from MRI images, achieving a top accuracy of 97.43
- Contributed to advancing neuro-oncology diagnostics by proposing a robust deep learning approach, offering potential applications in clinical decision-making and patient care.

Land Use and Land Cover Classification

[GitHub](#)

- Developed a land classification model utilizing ResNet architecture to classify various land types from satellite imagery, achieving a classification accuracy of 92%.
- Implemented techniques such as transfer learning and data augmentation to enhance model performance and generalization, enabling effective real-world applications in urban planning and agriculture.

EDUCATION

2022 - Present Bachelor of Technology in Artificial Intelligence at **Amrita Vishwa Vidyapeetham, Chennai**

GPA: 9.18/10.0

2022 Higher Secondary School at **D.A.V, Adambakkam**

91%

SKILLS

Areas of Interest	Artificial Intelligence, Neural Networks, Full Stack Development, Prompt Engineering, Image Processing
Courses and Certifications	AWS Academy Cloud Architecting by AWS AWS Academy Cloud Foundations by AWS Deep Learning by DeepLearning.AI Basics of Machine Learning by Udemy
Languages and Frameworks	C, Python, SQL, HTML, CSS, TensorFlow, Pandas, Numpy, Scikit-Learn
Tools and Technologies	MS Office, GitHub, Git, Figma, Canva, VS Code, Linux, MATLAB, MySQL, AWS
Softskills	Effective Communication, Critical Thinking, Problem Solving, Teamwork, Time Management, Adaptability

ACHEIVEMENTS AND VOLUNTEER EXPERIENCE

Autonomous Drone Development Challenge 2024 by SAEINDIA

KCG College of Technology, Chennai

- Achieved 3rd Place in Overall Performance and Awarded a cash prize of 20,000 for the team's outstanding performance.
- 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