

NIKHIL V

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WORK EXPERIENCE

Mentor, AWS Cloud Club, Amrita Vishwa Vidyapeetham

May 2024 - Present

Learning and Mentoring at AWS Cloud Clubs, Fostering Cloud Computing Expertise and Student Engagement

PROJECTS

Financial Fraud Detection

[GitHub](#)

- Developed a real-time fraud detection system using a Random Forest model in a web application with HTML, CSS, Python, and Flask for efficient transaction monitoring.
- Ensured scalability to handle large transaction volumes and adapt to evolving fraud patterns.

Convolutional Neural Network Approach for Classifying Skin Cancer

[GitHub](#)

- Implemented a CNN-based pre-processing pipeline for medical images, enhancing data quality through pre-processing, and augmentation techniques.
- Achieved a 96% accuracy, significantly improving diagnostic reliability by reducing irrelevant textures and image noise. Demonstrated the effectiveness in early skin cancer detection, thereby aiding in reducing mortality rates.

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 Foundations by AWS Deep Learning by DeepLearning.AI Basics of Machine Learning by Udemy
Languages and Frameworks	C, Python, SQL, HTML, CSS, JavaScript, TensorFlow, Pandas, Numpy, Scikit-Learn
Tools and Technologies	MS Office, GitHub, Git, Figma, Canva, VS Code, Linux, MATLAB, MySQL, ChatGPT
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