

VASANTHA KUMAR S

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Objective

Aspiring Software Engineer with a strong foundation in Artificial Intelligence, Machine Learning, and Full-Stack Development. Skilled in Python, Java, and cloud platforms such as AWS and Azure. Seeking opportunities to contribute to innovative projects and multidisciplinary teams while continuously expanding my technical and professional skill set in a dynamic environment.

Certifications

- Microsoft Certified: Azure Data Scientist Associate - DP 100
- Microsoft Certified: Azure AI Fundamentals - AI 900
- Introducing Generative AI with AWS (Udacity + AWS)
- IIRS - LIDAR Data Processing

Projects

Career Guidance Chatbot Web App: Developed a Flask-based web app integrated with Gemini API to provide personalized career suggestions. Included MongoDB backend.

Chain Snatching and Theft Detection: Built a real-time YOLOv8-based object detection system using OpenCV and Python to identify theft behavior, optimized for Raspberry Pi deployment.

Flood Segmentation with Satellite Imagery: Created a U-Net model in TensorFlow to analyze satellite images for flood-affected areas.

Skills

Languages: Python, Java, SQL, R

Web/Software Development: Flask, HTML, CSS, JavaScript

Frameworks & Tools: Git, Jupyter, Agile methodologies, Streamlit

Cloud Platforms: AWS, Azure, GCP

Machine Learning/AI: TensorFlow, scikit-learn, YOLOv8, U-Net, SageMaker

Soft Skills: Technical Writing, Communication, Team Collaboration, Leadership, Event Management

Experience

Infosys Springboard Internship, Remote

Sept. 2024 – Dec. 2024

AI and ML Internship

- Worked on Smart Safety Gear Detection System using YOLO models integrated into a computer vision pipeline for construction sites.

Education

VIT-AP University, Amaravathi, Andhra Pradesh

Sept. 2022 – July 2026

B.Tech in Computer Science Engineering with specialization in AI & ML

KRS School - CBSE, Madurai, Tamil Nadu

2020 – 2022

Higher Secondary

Volunteering

Null (InfoSec) Chapter, VIT-AP

2023 – Present

Events Team - Organized India's first AI music concert and conducted cybersecurity awareness programs.

IETE Chapter, VIT-AP

2024 – Present

Technical Team Member