

VAASU CHANDRA

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EDUCATION

Int M.Tech in Computer Science and Engineering (Data Science), VIT Bhopal Aug 2022 – May 2027
CGPA: 8.72 (Current)

SKILLS

Programming	Python (Proficient), Java
MLOps	MLflow, Data Version Control (DVC), Flask
Deep Learning	PyTorch
NLP	Scikit-learn, Pandas, NumPy, SpaCy, Hugging Face
Other Tools	MySQL, DjangoREST, Git, GitHub, Data Structures, Microsoft Azure

PROJECTS

OnlyPans.

- Developed a cloud-based recipe platform, optimizing recipe search and user experience through secure login and personalized features.
- Curated an extensive recipe database with advanced filtering options, enhancing user engagement and accessibility.
- Engineered scalable, cross-platform architecture using React.js, Material UI, MongoDB, and Node.js, prioritizing data security and seamless user interaction.

SOIL SYNC.

- Developed a smart soil monitoring system using Arduino Mega and sensors (DHT11, LDR, PIR, MQ135) for real-time temperature, humidity, gas, and light data.
- Integrated sensor data with ML models (scikit-learn, TensorFlow) to predict soil fertility and support sustainable agriculture.
- Created a 16x2 LCD-based on-field display and visualized data using Python libraries like Matplotlib.

Detection of Systemic Diseases through Ocular Images.

- Performed statistical tests (Shapiro-Wilk, paired t-tests) to identify significant retinal biomarkers for early ASD detection.
- Built deep learning pipelines using EfficientNet, InceptionResNetV2, and deep clustering for disease classification from fundus images.
- Developed a diagnostic platform with Flask backend, Streamlit-based inference app, and integrated a Gemini-powered chatbot for real-time medical Q&A.

ACHIEVEMENTS

- Secured first place in Genesis X Hackathon; executed comprehensive data analysis.
- Winner StockQuest; Real time stock market simulation event.