Gajjala Pragnesh Reddy

Karnataka, India
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Education

Amrita Vishwa Vidyapeetham **Oct 2022 – Present**
B.Tech in Computer Science (AI); CGPA: 8.68/10.0 *Amaravati, Andhra Pradesh*

Viswasai Junior College **Apr 2020 – May 2022**
Higher Secondary in Mathematics, Physics, Chemistry (MPC); Percentage: 91.1% *Nellore, Andhra Pradesh*

Sri B Swamidoss High School **Jun 2019 – Mar 2020**
Secondary School Certificate (State Board); Percentage: 80% *Nellore, Andhra Pradesh*

Work Experience

Amrita Vishwa Vidyapeetham **Oct 2022 – Present**
Research Assistant

- Collaborated with faculty on research in credit risk analysis using machine learning, deep learning, and statistical models.
- Developed a credit risk prediction system and published a research paper at an IEEE conference.

Technical Skills

Programming Languages: Python, SQL, HTML, CSS, JavaScript.
Frameworks and Technologies: ReactJS, NodeJS, Flask, MySQL, MongoDB.
Artificial Intelligence: Machine Learning(Sklearn), Deep Learning(TensorFlow).
Tools and Platforms: Git and GitHub, Amazon Web Services (EC2, S3), Postman.
Industrial Knowledge: Data Structures and Algorithms, OOPs, Operating Systems, DBMS.

Projects

Medica: Smart Medical Website | *Python, ReactJS, NodeJS, MongoDB, Flask* **2025**

- Developed a full-stack medical web app with AI features like a medicine classifier, prescription analyzer, chatbot, hospital navigation, e-commerce (80+ medicines), blogs, and appointment booking.
- Reduced patient query resolution time by 45% and manual steps by 35% through optimized API workflows.

StegoNet: Secure Image Steganography Platform | *PyTorch, Flask, ReactJS, SQLite* **2024**

- Engineered a deep framework-based steganography system; achieved PSNR: 76.61 dB and SSIM: 0.7179 on 100 test samples.
- Recovered secret images with a PSNR of 83.26 dB and SSIM of 0.8996, ensuring near-lossless decoding.

CricketChaseAI: T20 Chase Predictor | *Python, PySpark, TensorFlow, Flask* **2024**

- Built a real-time cricket chase prediction model on 4.25L+ records; achieved 86% accuracy.
- Deployed a Flask app serving predictions with sub-2s latency for live inputs.

Lung Cancer Prediction App | *Python, Scikit-learn, Flask* **2022**

- Built a Flask-based web app to predict lung cancer risk using an XGBoost model with 96% accuracy.
- Implemented robust input validation, intuitive UI, and feature importance visualization.

Certifications

Elements of AI – University of Helsinki
Python for Data Science and ML Bootcamp – Udemy
AWS Educate ML Foundations – Amazon
Python DSA – Infosys Springboard

Achievements

- Published a paper titled *"Comparative Analysis of ML, DL, and Statistical Models on Credit Risk Prediction"* on IEEE Xplore.
- Winner of SAP Hackfest – Regional Round.