Malla Gopichand

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PROFESSIONAL SUMMARY

Computer Science Engineering student with strong skills in Python, and web development. Experienced in building web applications, and AI-based tools through academic projects and internships. Familiar with databases, cloud tools, Agile methods, and the software development lifecycle. Strong problem-solving, debugging, and team collaboration skills, eager to contribute to Cognizant GenC's innovative technology solutions.

EXPERIENCE

Generative AI with IBM Cloud Intern – IBM, *IBM SkillsBuild*   Jun 2025 – Jul 2025
• Developed a web-based healthcare assistant using FastAPI, IBM Granite, and Chart.js for chat-based symptom analysis, predictive diagnosis, and personalized treatment plans.
• Applied prompt engineering and optimized API workflows to improve accuracy and reduce response latency, enhancing real-time user experience.

Machine Learning Intern, *Smart Bridge*   Jun 2024 – Jul 2024
• Built a YOLOv6-based brain disease detection model in PyTorch, achieving 92% accuracy and cutting diagnostic time by 60%.
• Preprocessed and augmented 10K+ medical images with Python, OpenCV, and NumPy to improve model robustness.
• Optimized via hyperparameter tuning and transfer learning, reducing false positives by 35%, and deployed with TensorFlow & CUDA for 40% faster training

EDUCATION

B.Tech in Computer Science and Engineering,   2022 – Present
Seshadri Rao Gudlavalleru Engineering College, Andhra Pradesh
CGPA: 8.29

Intermediate (MPC), *Narayana Junior college, Vijayawada*   2020 – 2022
Percentage: 92%

10th (SSC), *Sri Krishnaveni High School, Vijayawada*   2019 – 2020
Percentage: 86%

TECHNICAL SKILLS & TOOLS

Programming Languages   **Databases**
C, Python, Java   MySQL, MongoDB

Web Technologies   **Tools**
HTML, CSS, JavaScript, PHP   Git, VS Code, XAMPP

PROJECTS

HealthAI: Intelligent Healthcare Assistant Using IBM Granite, *Generative AI*   Mar 2025 – Apr 2025
• Developed a web-based AI healthcare assistant using FastAPI and IBM Granite for chat-based symptom analysis, predictive diagnosis, and personalized treatment plans.
• Integrated analytics dashboard with Chart.js for visualizing health metrics; improved reliability through unit, integration, and error-handling tests.

Brain Disease Prediction, *Machine Learning*   Nov 2024 – Dec 2024
• Achieved 92% accuracy using YOLOv6 & PyTorch, reducing diagnostic time by 60%.
• Enhanced model via preprocessing & augmentation of 10K+ images with Python, OpenCV & NumPy.
• Reduced false positives by 35% through tuning & transfer learning; deployed with TensorFlow & CUDA for 40% faster training.

Multifactor Road Accident Analysis, *Data Analyst*   Sep 2024 – Oct 2024
• Collected and preprocessed accident data; built SQL schemas and OLAP cubes.
• Applied K-Means, DBSCAN, and Hierarchical clustering — K-Means best before preprocessing, Hierarchical best after.

CERTIFICATES

Python Basics for Data Science   **Machine Learning**   **Generative AI with IBM Cloud - IBM**
HarvardX   Smart Bridge   **Skills Build**
                                                                                APSCHE