Parth Sengar

+91 9598608601 | sengarparth01@gmail.com | GitHub: ParthSengar28 | LinkedIn: Parth-Sengar

Profile Summary

Final-year B.Tech Computer Science student with a deep interest in Artificial Intelligence, Machine Learning, and Data Science. Experienced in building LLM-integrated applications and medical image classifiers with explainable AI. Proficient in Python, Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, and Gemini API. Strong problem-solving skills, with hands-on experience in real-world AI projects and AI research internships.

Education

Jaypee University of Engineering and Technology   Aug 2022 – May 2026
B.Tech in Computer Science Engineering

Experience

AI Research Intern   Coding Jr, Remote
May 2025 – Present
- Designed and developed LLM-powered chatbots using LangChain and API.
- Engineered prompt chains and retrieval-based pipelines (RAG) to enhance contextual understanding.
- Gained hands-on experience with prompt engineering and deployment workflows.

Projects

AI-Powered Resume Analyzer
Technologies: Groq LLM (LLaMA3-70B), Streamlit, LangChain, Python, PyPDF2, python-docx
- Developed a web application that evaluates resumes using Groq's LLaMA3-70B model to provide personalized feedback and ATS compatibility reports.
- Integrated PDF/DOCX parsing, target role input, and multi-language LLM prompting via LangChain for tailored suggestions.
- Delivered real-time scoring and improvement feedback through an interactive Streamlit interface with copy-to-clipboard functionality.

Medical Image Classification with Explainable AI
Technologies: Keras, GradCAM, Streamlit
- Built a CNN to detect pneumonia from chest X-rays with 94% accuracy.
- Used GradCAM to highlight focus regions, improving interpretability for end-users.
- Deployed a diagnostic dashboard enabling image upload, prediction, and explanation heatmap.

Technical Skills

Languages: C/C++, Python, SQL
Libraries: Pandas, NumPy, OpenCV, Scikit-learn, MediaPipe
Tools: Git, Streamlit, Google Colab, VS Code, Hugging Face
Data: Kaggle datasets, web scraping (ethical)

Certifications

- Data Science with Python Bootcamp   LetsUpgrade (June 2024)
- Mastering Data Structures and Algorithms in C++   Udemy (Dec 2024)
- AI Foundation Certification   Infosys Springboard (May 2025)

Achievements and Activities

- Finalist, RIDE Hackathon 2024 (Research, Innovation, Development, Entrepreneurship)
- Solved 150+ DSA problems on LeetCode (Easy–Hard)