Mohanragul G

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SUMMARY

Final-year B.Tech student in Artificial Intelligence and Data Science with expertise in AI, Machine Learning, and MERN-stack development. Adept at delivering innovative, results-oriented software solutions during high-pressure situations such as internships and hackathons. Demonstrated strength in data science, competitive programming, and delivering high-performance applications with a passion for testing and refining solutions to meet business needs.

EDUCATION

- **PSG Institute of Technology and Applied Research** — 2022 – 2026
  B.Tech in Artificial Intelligence and Data Science (CGPA: 8.28) — *Coimbatore, India*

EXPERIENCE

- **AssuredAI** — September 2024 – November 2024
  Machine Learning Intern – AI Feedback Analysis System — *Coimbatore, India*
  - Developed a real-time feedback analysis system using ensemble machine learning for emotion detection from non-verbal cues.
  - Integrated facial recognition, interaction metrics, and system logs to enhance analysis accuracy.
  - **Tech Stack**: TensorFlow, OpenCV, dlib, FNN, CNN, Streamlit, Grafana.
- **SAP** — March 2024 – June 2024
  Project Intern – Vendor Comparison Application — *Bengaluru, India*
  - Created a decision-support tool for vendor selection using dynamic comparison metrics.
  - Implemented small language models (SLM) and Retrieval-Augmented Generation (RAG) for real-time product comparisons.
  - **Tech Stack**: DistilBERT, RAG, LangChain, Gradio, React.js, NumPy, Pandas.

PROJECTS

- **ALLASK | LangChain, NVIDIA AI, PyPDF2, Bootstrap, Flask, MySQL** — *April 2025*
  - Developed an AI-driven task allocation application to optimize task assignment efficiency.
  - Utilized AI agents to streamline task distribution and improve productivity.
- **SmartLoan Assistant | RAG, Sarvam AI, LangChain, Groq, PyPDF2, React.js, Flask** — *March 2025*
  - Built a multilingual chatbot to assist users with low financial literacy in loan applications.
  - Provided eligibility checks, speech/text input, and financial guidance for accessibility.
- **INVENTRA | YOLO, OpenCV, Ultralytics, PyTorch, React.js, Flask, MongoDB** — *November 2024*
  - Designed a system for restaurants to track ingredient usage via object detection.
  - Improved inventory accuracy and reduced waste through real-time monitoring.
- **ISL Connect | TensorFlow, OpenCV, CNN, React.js, Flask, MongoDB** — *October 2024*
  - Created a software solution to facilitate communication for hearing-impaired individuals.
  - Supported text-to-ISL, speech-to-text, and ISL video generation for accessibility.

TECHNICAL SKILLS

- **Programming Languages**: Python, Javascript, C, C++
- **Databases**: MongoDB, PostgreSQL, MySQL
- **Web Development**: React.js, Node.js, Express.js, Flask, Streamlit, Tailwind CSS, Bootstrap
- **AI & ML**: TensorFlow, Scikit-learn, OpenCV, YOLO, RAG, LangChain, Hugging Face Transformers
- **Data Analysis**: Pandas, NumPy, Matplotlib, Seaborn
- **Tools**: Git, GitHub, Docker, Postman, Grafana, Figma

KEY ACHIEVEMENTS

- Secured **finalist** position at Hackwell by Honeywell for developing an AI task allocator in **48 hours**.
- **Top 15 finisher** at Great Bengaluru Hackathon for deploying SmartLoan Assistant in under **24 hours**.
- **Top 10%** worldwide on LeetCode. Codeforces: **Specialist**. CodeChef: **3-star**. GeeksforGeeks: **3-star**.

CERTIFICATIONS

- The Complete 2024 Web Development Bootcamp – Udemy
- Oracle Cloud Infrastructure 2023 AI Foundations – Oracle
- Problem Solving (Basic & Intermediate) – HackerRank

ROLES & RESPONSIBILITIES

- **Software Lead**, Vayuputra Advanced Drone Team (2024 – Present): Spearheaded engineering and software development for advanced drone systems, ensuring successful execution of critical objectives.
- **Executive Member**, Enigma Coding Club, AI & DS Department (2023 – 2024): Facilitated coding events and collaborative programming.