Prakhar Agrawal

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Summary

Computer Science and Engineering student with hands-on experience in AI/ML and full-stack web development. Eager to contribute technical skills and grow in a dynamic, innovation-driven environment.

Education

- **Vellore Institute of Technology** CGPA: 8.86
  Bachelor of Technology, Computer Science Core *2022 – 2026*
- **DPS, Bangalore East** Percentage: 91%
  CBSE XII *2022*
- **Narayana Olympiad School, Bangalore** Percentage: 93%
  CBSE X *2020*

Experience

- **Advanced Application Engineering Intern** May 2025 – July 2025
  Accenture *Bangalore*
  - Contributed to the Standard Chartered Bank (SCB) Phase 2 Implementation project, ensuring accurate and consistent data handling
  - Used SQL to extract, validate, and analyze large financial datasets
  - Performed data profiling to assess data quality and identify anomalies and mismatches
  - Enhanced teamwork and communication skills through collaboration with experienced professionals
- **Summer Intern** June 2024 – July 2024
  Radisys *Bangalore*
  - Acquired theoretical basic knowledge of overall 5G RAN
  - Gained a deeper understanding of the 5G Packet Data Convergence Protocol (PDCP) and successfully submitted a project presentation in college

Technical Projects

- **Movie Reservation System** January 2025 – March 2025
  MongoDB, Express.js, React.js, Node.js, Redis, Stripe, Clerk, Docker
  - Developed a full-stack movie booking platform with REST APIs using Node.js and Express; implemented JWT and Clerk for secure authentication
  - Integrated Stripe for dynamic payment processing and used Redis for session caching and real-time seat locking to ensure booking consistency
  - Dockerized the backend for seamless deployment and followed clean architecture principles to ensure modular, maintainable code
- **FarmWise – AI-Powered Soil Nutrient Predictor** January 2024
  Python, Flask, TensorFlow, HTML, CSS, JavaScript
  - Developed a web-based ML application that provides personalized predictions of soil nutrient to assist farmers in optimizing crop yields (Devsoc 2024 Hackathon)
  - Trained models using RandomForestRegressor and DecisionTreeClassifier, achieving a prediction accuracy of 92% on agricultural data
  - Built the frontend with HTML/JS and integrated it with a Flask backend serving TensorFlow models in real time for seamless user interaction
- **AI-ML Based Real-time Age and Gender Prediction** August 2023 – November 2023
  Python, NumPy, Pandas, Matplotlib, TensorFlow, Keras, OpenCV
  - Built a real-time computer vision system to predict age and gender from live camera feeds using a custom-trained CNN
  - Trained the model on a dataset of 24,000+ labeled images, optimizing performance using Mean Absolute Error (MAE) as the loss function
  - Integrated with OpenCV for live video processing and deployed the model using Python scripts for real-time inference

Technical Skills

- **Programming Languages:** Python, C, C++, Java, JavaScript
- **AI/ML:** TensorFlow, OpenCV, Computer Vision, YOLO v8, Natural Language Processing (NLP)
- **Web Technologies:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Django, Flask
- **Databases:** SQL, MySQL, MongoDB, Redis
- **Soft Skills:** Communication, Teamwork, Problem Solving, Flexibility