Prajwal M D

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Professional Summary

Bachelor of Engineering graduate in Computer Science skilled in full-stack development, AI/ML, and cloud technologies. Experienced with React, FastAPI, Django, AWS, and Firebase. Passionate about building scalable Web, AI, Web3 solutions and driving innovation through technology in dynamic team environments.

Education

Bachelor of Engineering in Computer Science
PES College of Engineering, Mandya   *June : 2025*
CGPA: 8.43

Higher Secondary Education
Board of Higher Secondary Education, Karnataka   *May : 2021*
Percentage: 95.33%

Secondary Education
Board of Secondary Education, Karnataka   *May : 2019*
Percentage: 97.28%

Technical Skills

- **Programming Languages:** Python, R, C

- **Data Science:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-Learn, OpenCV, Keras, TensorFlow, PyTorch,LLM

- **Web Development:** Django, Flask, Streamlit, Full Stack Development

- **Tools:** Power BI, DAX, SQL, Excel, Azure, Blockchain, AWS, OpenAI, LiveKit, Git

- **Soft Skills:** Communication, Teamwork, Problem-Solving, Time Management

Certifications

- **Microsoft Power BI Data Analyst Associate**
  Mastered Power BI tools for sophisticated data analysis, creating dynamic dashboards that deliver deep insights.

- **Microsoft Azure Data Fundamentals**
  Solidified understanding of core data concepts with a focus on implementing cloud-based solutions using Microsoft Azure services.

Experience

Machine Learning Intern   Feb 2025 - May 2025
Wildfox Business Advocacy

- Extracted and integrated data from on-premise ERPs and cloud APIs, and built automated pipelines to power dynamic Power BI dashboards, enabling real-time business insights and informed decision-making.

- Developed and evaluated time-series forecasting models and an OpenAI-based ethnicity identifier service, leveraging machine learning and generative AI to drive predictive analytics and enhance demographic segmentation capabilities.

Data Analyst Intern   Jul 2024 - Sep 2024
KultureHire

- Analyzed the career aspirations of Generation Z by collecting, processing, and querying data with MySQL, ensuring data integrity and accuracy.

- Developed interactive dashboards in Power BI and managed data storage in Excel, providing actionable insights and enhancing data-driven decision-making processes.

Project Intern   Jan 2024 - Feb 2024
Aarushi Infotech

- Engineered a highly accurate PAN card detector utilizing OpenCV and Python, incorporating OCR for precise text extraction.

- Seamlessly integrated the detector into a complex application, significantly enhancing its functionality.

Student Intern   Jul 2023 - Sep 2023
RareMinds

- Designed and developed a responsive personal portfolio leveraging HTML, CSS, and JavaScript, complete with interactive project showcases.

- Conducted rigorous usability testing, iteratively refining the UI to optimize user experience.

Projects

- **Ethinicity Detector**   *Python, OpenAI, FastAPI, Ubuntu*
  Developed an AI-powered service using OpenAI models to predict religion and mother tongue from a person's first name. Integrated the model into a production-ready FastAPI backend and deployed it on a client server for seamless internal access.

- **Stock Prediction and Trading Strategies**   *Python, Scikit-Learn, Streamlit*
  Developed a dynamic stock prediction system capable of predicting any stock's price and offering trading strategies for long-term investments. Achieved high accuracy with RMSE ranging from 0.5 to 1 depending on the stock. Applied for **patent (202441102921)** and submitted a **research paper for publishing** on this project.

- **Brain Age Prediction Using OpenBHB Dataset**   *Python, TensorFlow, Scikit-Learn*
  Built a predictive model to estimate brain age from neuroimaging data, achieving an R Square of 0.95. This project provides valuable insights into cognitive health and aging.

- **Forest Fire Prediction**   *Random Forest Regressor, Django*
  Developed a forest fire risk prediction model with 94.5% accuracy, integrated into a Django application for proactive monitoring. Applied for **patent (202441102922)** to protect the innovation behind the model.

- **Website Traffic Analysis**   *Python, Jupyter Notebook*
  Conducted in-depth analysis of website traffic data, providing actionable insights to enhance content strategy and user engagement.

- **Python AI Voice Assistant & Agent**   *Python, LiveKit ,OpeanAI ,python-dotenvI*
  Developed a real-time voice assistant using LiveKit and the OpenAI API for seamless audio capture, transcription, LLM-driven responses, and custom task automation.

Achievements

- **Published Research Paper:** Shivashankar, S. K., Prajwal, M. D., Likith Raj, K. R., Tanya Priyadarshini, A. R., & Manvitha, S. M. (2024). Forest fire prediction using random forest regressor: A comprehensive machine learning approach. *International Journal of Innovative Science and Research Technology*, 9(9), 2143-2155. https://doi.org/10.38124/ijisrt/IJISRT24SEP1290

- **Co-authored Book:** Dr. Vinay S, Dr. Umesh D R, & Prajwal M D (2023). *Front End Web Development*, Notionpress. ISSN: 48179-3. https://notionpress.com/read/front-end-web-development

Certificates

My Certificates on Google Drive