Aditya Raj

Contacts: adityaraj.anshukumar50@gmail.com | +91-9560681321

https://www.github.com/Aditya-AR-A
https://www.kaggle.com/arnoldadi
https://www.linkedin.com/in/aditya-raj-b1ab212a8

Profile

Software developer and data scientist with strong expertise in full-stack, deep learning, and machine learning. Experienced in building AI-powered tools (e.g. Chess Helper, VS Code Copilot extension), and delivering insights through structured models in Python/TensorFlow. Holds a Data Science Certification (IBM via Simplilearn) and demonstrated impact via notable projects in NLP, clustering, and predictive modeling.

Technical Skills

- **Languages:** Python, R, Scala, Java, C, C++, TypeScript, JavaScript, Go, Dart
- **Data Science:** Pandas, Numpy, Scikit-learn, TensorFlow, PyTorch, LLMs, CNN, GAN, **Data Wrangling, Feature Engineering, Model Evaluation Techniques**
- **Data Viz:** Seaborn, Plotly, Tableau, PowerBI
- **Web/Cloud:** React, Next.js, Flutter, AWS, Azure, Google Cloud, VS Code Extensions
- **APIs:** OpenAI, Groq, HuggingFace, Google API
- **Tools:** Jupyter, SQL, MySQL, Excel, PowerPoint

Education

- B.A. (English), Purnea College, 2023

Certifications

- Master's Certification in Data Science (IBM & Simplilearn) 1 Year Program, 2023
- PCAP: Certified Associate Python Programmer
- HackerRank: SQL (Intermediate)

Languages

- English, Hindi, Maithili

Soft Skills

- Analytical Thinking, Communication, Patience, Teamwork, Curiosity, Adaptability

Work Experience

AI & Data Science Intern | *Coding Pro* | 06/2024 – 09/2024

- Developed a feature-rich VS Code extension with Copilot integration, improving developer productivity by 20% through AI-driven code suggestions and autocompletion.
- Led Copilot integration and fine-tuning, achieving a 90% user satisfaction rate and reducing coding errors by 25%.
- Designed an intuitive UX, increasing feature adoption by 35% and supporting 16+ programming languages.

Projects

Real-Time Chess Helper using YOLOv8

- Built a robust real-time chessboard state recognition system using YOLOv8, capable of detecting and classifying chess pieces from live camera feeds at over 30 FPS.

- Achieved 98.7% mAP@50 IoU on diverse chessboard configurations using advanced training techniques and a curated Kaggle dataset.

- Enabled automated gameplay analysis and integration with chess engines for move prediction and AR learning tools.

VS Code Copilot Extension

- Designed and implemented a VS Code extension integrating Copilot for intelligent code suggestions, supporting 16+ languages and frameworks.

- Enhanced developer experience with customizable autocompletion and intuitive UI, adopted by 500+ users.

Gender, Nationality & Emotion Detection (Deep Learning)

- Developed CNN-based models for simultaneous detection of gender, nationality, and emotion from facial images, achieving 98%+ accuracy.

LinkedIn Feed Sentiment Analysis (NLP)

- Automated web scraping and sentiment analysis of LinkedIn posts, delivering 95%+ accuracy in content classification.

Real Estate Price Prediction (ML)

- Conducted EDA, data cleaning, and regression modeling to predict real estate prices, visualizing trends with Plotly and Seaborn.