Pranav Ramesh

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Data Scientist with expertise in predictive modeling, deep learning, and data visualization. Skilled in delivering scalable solutions, refining workflows, and providing actionable insights. Strong problem-solving, communication, and time-management abilities. Available to contribute starting February 2025.

Education

Master of Science in Data Science Dec 2024
San Jose State University, San Jose, California

- Coursework: Statistics, Data Visualization, DBMS, Machine Learning, Deep Learning, Data Mining

Bachelor of Engineering in Computer Science Aug 2020
Visvesvaraya Technological University, Bengaluru, India

- Coursework: Mathematics, Python, Cloud Computing, SQL, Web Technologies, Business Intelligence

Professional Experience

Data Scientist Intern | *MarketMakerCRE , Pensacola, FL* Jul 2024 – Aug 2024

- Optimized data collection by 35% through Python-based web scraping with BeautifulSoup and Selenium, ensuring seamless integration with REIT datasets (Real Estate Investment Trust).
- Achieved 30% improvement in data accuracy via advanced cleaning techniques, enabling real-time market insights.
- Developed 2 Tableau dashboards that reduced decision-making time by 25%, supporting 20+ real estate leaders.
- Implemented CI/CD pipeline management with Azure DevOps, increasing data ingestion efficiency by 20%.
- Reduced MSE by 1.2% and improved profitability by 3% through A/B testing of XGBoost model variations.

Data Analyst | *Juniper Networks, Bengaluru, India* Jul 2020 – Jan 2023

- Refined SQL and Alteryx data pipelines, enhancing WaR Tableau dashboard (Work at Risk) accuracy by 25% for Global Services.
- Analyzed 1,700+ client engagements, achieving a 20% boost in client satisfaction.
- Designed Sprint Analysis & Risk Tableau dashboards, improving decision-making for 60+ team members.
- Integrated PS/AS Credits dashboard with Power Apps, driving a 23% increase in PM team productivity.
- Created 7 financial Tableau dashboards, facilitating data-driven decisions for over 100+ stakeholders, improving decision-making by 40%.
- Collaborated with cross-functional teams to develop 15 Power Apps tools, enhancing workflows for 80+ daily users and improving operational efficiency by 33%.

Data Analyst Intern | *Juniper Networks, Bengaluru, India* Jan 2020 – Jun 2020

- Streamlined data extraction with advanced SQL queries and complex joins, cutting report generation time by 18%.
- Automated reporting processes using Python, saving 10+ hours weekly and improving report generation efficiency.

Projects

Employee Attrition Prediction | Python, scikit-learn, pandas, numpy (GitHub)

- Utilized advanced machine learning algorithms (XGBoost, AdaBoost, Logistic Regression, Random Forest) to predict employee attrition, optimizing recall to 77%, saving $35,000 per retained employee.
- **Impact**: Provided HR teams with actionable insights, reducing turnover and enhancing retention strategies.

Predictive Modeling for Soil Health Analysis in Fresno County | Python, TensorFlow, PyTorch, Flask (GitHub)

- Processed extensive soil and weather data (35+ years) to predict soil health, improving model accuracy by 12% through log transformation.
- Implemented hybrid LSTM-Random Forest models with custom layers, achieving an MSE of 0.015 for accurate soil pH prediction.
- Delivered a user-friendly GUI for geospatial maps and time-series insights, empowering agricultural decision-making.

SQL Interview Preparation Tool | Python, LangChain, FAISS, Google GenAI, Streamlit (GitHub)

- Engineered an interactive web app leveraging LangChain's ChatGroq model with FAISS and Google Generative AI, delivering accurate conversational SQL interview answers while enhancing retrieval speed and user experience.

Real Estate Price Prediction | Python, scikit-learn, TensorFlow, PyTorch (GitHub)

- Forecasted property prices for 1, 2, and 5 years with a 5% annual increase using LSTM and other ML models.
- Achieved MSE of 0.15 after training LSTM, delivering accurate long-term investment predictions.

Technical Skills

Languages: Python, SQL, JavaScript, HTML/CSS
Frameworks & Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Generative AI, LLMs
Databases: MySQL, Microsoft SQL Server, MongoDB, SharePoint
Automation, BI & ETL Tools: Tableau, Power BI, Power Apps, Power Automate, Alteryx, Excel