Pranav Ramesh

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EDUCATION

San Jose State University — San Jose, USA
M.S., Data Analytics; GPA: 3.58/4.00 — Dec 2024
Coursework: Data Visualization, DBMS, Machine Learning, Big Data, Deep Learning, Data Mining

Dr. Ambedkar Institute of Technology — Bengaluru, India
B.E., Computer Science and Engineering; GPA: 4.00/4.00 — Aug 2020
Coursework: Python, Cloud Computing, DBMS, SQL, Machine Learning, Web Technologies

WORK EXPERIENCE

MarketMakerCRE — Pensacola, USA
Data Scientist Intern — *Jul 2024 – Present*
- Develop Python web scraping scripts with Selenium and BeautifulSoup, enhancing data collection by 35%.
- Boost data accuracy by 30% through data cleaning and integration, enhancing real-time market insights.
- Build dynamic Tableau dashboards, showcasing real estate data, elevating decision-making efficiency by 25%.
- Create and maintain data pipelines for seamless data ingestion, boosting aggregation of non-market, pre-market, off-market, and off-market data, which advances strategic planning capabilities by 20%.
- Apply statistical methods and A/B testing to enhance analytics for REITs and funds, boosting decision-making accuracy by 35%.

Juniper Networks — Bengaluru, India
Software Engineer 1 — *Jul 2020 – Jan 2023*
- Gathered data from various sources leveraging SQL and preprocessed it with Alteryx, resulting in 25% more accurate Tableau dashboards and improving data-driven decision-making across the GS team (Global Business Operations).
- Designed a Tableau dashboard to visualize project risks and sprint data, optimizing operational efficiency by 33%.
- Built a PS/AS Credits Tableau dashboard, refining PM team productivity by 23% with detailed client credit insights.
- Developed 7+ Tableau dashboards with 38-43 daily viewers, widely engaged by PM and business operations teams, earning awards such as **Out of this World (Link)** and **Fly to Moon (Link)**, enhancing data accessibility and decision-making.
- Spearheaded development of "Job Rotation Tool" utilizing Power Apps, streamlining internal job opportunities and amplifying organizational agility and skill development by 21%.
- Orchestrated wireframing of 15+ Power Apps tools with approximately 35-40 daily interactions each, boosting user engagement and earning awards such as **Rocket to Space (Link)** and **Recognition of the Month (Link)**.

Juniper Networks — Bengaluru, India
Intern 3 Professional Services — *Jan 2020 – June 2020*
- Designed CALA theater dashboard with 15-19 daily views, strengthening business operations efficiency by 30%.
- Employed Python to streamline reporting processes, saving 10+ hours per week, and reinforcing report generation efficiency.
- Engineered global operations tool with Power Apps, Power Automate, SharePoint, automating request submissions and approvals, fostering visibility, and raising efficiency by 30% for 500+ users across AMER, APAC, CALA, EMEA.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML/CSS
Frameworks/Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Selenium, OpenCV, BeautifulSoup, NLTK
Advanced AI: Gen AI, RAG, LLM
Statistics: Hypothesis Testing, Regression Analysis, Time Series Analysis
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly, ggplot2
Databases: MySQL, MongoDB, Microsoft SQL Server, SharePoint
Automation and Tools: Power Apps, Power Automate, Alteryx, Excel

PROJECT EXPERIENCE

Employee Attrition Prediction | Python, scikit-learn, pandas, numpy (GitHub)
- Employed XGBoost, AdaBoost, Logistic Regression, Random Forest on IBM HR data to predict attrition.
- Optimized recall to 77% with XGBoost; 70% with Logistic Regression, Random Forest by fixing precision to 30%.
- **Business case:** $50,000 lost employee cost vs. $15,000 retention; potential $35,000 saving per retained employee.

Soil Types Image Classification | Python, TensorFlow, dropout, L2 regularization, data augmentation (GitHub)
- Fine-Tuned DenseNet121, ResNet50 models pre-trained on ImageNet for soil type classification from 1300 images.
- Achieved an accuracy of 87.63% with ResNet50 and 85.57% with DenseNet121 in soil classification, demonstrating deep learning's potential in augmenting agricultural soil classification.