Pranav Ramesh

San Jose, California, USA | +1 (408) 581-4414 | pranavramesh84@gmail.com | LinkedIn | GitHub | Portfolio

EDUCATION

Master of Science, Data Analytics Dec 2024
San Jose State University, San Jose
GPA: 3.53/4.00
Coursework: Data Visualization, DBMS, Machine Learning, Big Data, Deep Learning, Data Mining

Bachelor of Engineering, Computer Science & Engineering Aug 2020
Dr. Ambedkar Institute of Technology, Bengaluru
GPA: 4.00/4.00

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, PyTorch), SQL
Statistics: Hypothesis Testing, Time Series Analysis, ARIMA
Data Analysis & Visualization: Alteryx, Microsoft Excel, Tableau, Microsoft Power BI
Machine Learning & AI: Classification, Regression, Data Science Pipeline (cleansing, wrangling, visualization, modeling, interpretation), Model Evaluation, Generative AI (LLMs, GPT-3/GPT-4, BERT, Transformer Models)
Automation Tools & IDEs: Microsoft Power Apps, Microsoft Power Automate, Microsoft SharePoint, Jupyter Notebook, MySQL Workbench, Visual Studio, Google Collab
Interpersonal Skills: Communication, Teamwork, Leadership, Adaptability, Time Management, Problem Solving, Critical Thinking, Collaboration, Mentoring, Networking
Certifications: Power BI Essential Training, Tableau Essential Training (2020.1), Machine Learning with Python Foundation, Learning Data Analytics: 1 Foundation, Microsoft Power Apps Essential Training: Beyond & Basics, Microsoft Power Automate Essential Training, CSS Essential Training, Unconscious Bias

PROFESSIONAL EXPERIENCE

Software Engineer 1, Juniper Networks, Bengaluru, India Jul 2020 - Jan 2023

- Orchestrated the creation of **Tableau** dashboard, offering a holistic visual depiction of **projects** facing **potential risks**, alongside **sprint data**, enabling meticulous **data-driven decision-making** leading to an impressive **33%** enhancement in operational efficiency.
- Spearheaded the development of the "**Job Rotation Tool**" using **Power Apps (Power Fx & JavaScript)** and **automated approval workflows** via **Power Automate**, enhancing **employee access** to **internal job openings**, **streamlined applications**, and **facilitated smooth transitions post-approvals**, resulting in **17%** increase in organizational agility and skill development.
- Drove **23%** improvement in **productivity** for **the PM team** by implementing the **Credits Tableau dashboard**, offering comprehensive insights into **client's credit details** such as credit start data expiry dates, and balance credits, along with other information related to the credits.
- Wire-framed **15** Power Apps tools, each app experiencing approximately **11** interactions **per day**, and created **5** Tableau dashboards with a **daily viewership** of **18-23**, promoting extensive usage across PM and business operations teams resulting in reception of prestigious awards, such as **"Out of this World" (Dec 2022), "Fly to Moon" (Sept 2022), "Rocket to Space" (July 2022), and "Recognition of the Month" (Mar 2021)**.

Intern 3 Professional Services, Juniper Networks, Bengaluru, India Jan 2020 - Jun 2020

- Engineered robust Power Apps tools and implemented automation through Power Automate, yielding a **13%** reduction in manual tasks, and enhanced efficiency gains.
- Employed Microsoft Excel, SharePoint, and Tableau for **organized data storage** and **insightful visualizations**, enhancing **project management** throughout the lifecycle.

PROJECT EXPERIENCE

Data Mining Workforce Dynamics: Understanding Employee Attrition Apr 2024 - May 2024

- 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 the precision** to **30%**.
- **Business case: $50,000** lost employee cost vs. **$15,000** retention; potential **$35,000** saving per retained employee.

Advancing Agricultural Sustainability: Deep Learning for Soil Classification Apr 2024 - May 2024

- Fine-Tuned **DenseNet121, ResNet50** models **pre-trained on ImageNet** for soil type classification from **1300** images.
- Used custom layers, data augmentation, dropout, L2 regularization to enhance model performance, and mitigate overfitting.
- Achieved an **accuracy** of **87.63% with ResNet50** and **85.57% with DenseNet121** in soil classification, demonstrating deep learning's potential in improving agricultural soil classification.