

## Pranav Ramesh

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### EDUCATION

#### Master of Science, Data Analytics

Dec 2024

San Jose State University, San Jose

GPA: 3.57/4.00

**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.