

## 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, NLTK, spaCy, TensorFlow, PyTorch), SQL

**Statistics:** Hypothesis Testing, Time Series Analysis, ARIMA

**Machine Learning:** Classification, Regression, Data Science Pipeline (cleansing, wrangling, visualization, modeling, interpretation), Model Evaluation, CNN, RNN

**Data Engineering:** Data Preprocessing, Feature Engineering (PCA, t-SNE), ETL (Extract, Transform, Load).

**Data Analysis & Visualization:** Alteryx, Microsoft Excel, Tableau, Microsoft Power BI

**Deployment Tools:** Version control (Git), Docker, FastAPI

**Automation Tools & IDEs:** Microsoft Power Apps, Microsoft Power Automate, Microsoft SharePoint, MySQL Workbench, VS Code.

### INTERPERSONAL SKILLS

Communication, Teamwork, Leadership, Adaptability, Time Management, Problem Solving, Critical Thinking, Collaboration, Mentoring, Networking

### PROFESSIONAL EXPERIENCE

#### Software Engineer 1, Juniper Networks, Bengaluru, India

Jul 2020 - Jan 2023

- Integrated project risk and sprint data into a **Tableau dashboard**, resulting in a **33% increase** in **operational efficiency**.
- Developed "**Job Rotation Tool**" with **Power Apps**, enhancing **organizational agility by 17%** through **streamlined job applications**.
- Deployed **Credits Tableau dashboard**, driving a **23% productivity** improvement for the PM team with comprehensive credit details.
- Engineered **15 Power Apps tools** and **5 Tableau dashboards**, earning accolades 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) for their substantial impact on business operations.

#### Intern 3 Professional Services, Juniper Networks, Bengaluru, India

Jan 2020 - Jun 2020

- Crafted **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 **structured data storage** and **insightful visualizations**, leading to a **15% improvement** in project management efficiency throughout the lifecycle.
- Implemented a **centralized project management platform** powered by a custom **Power Apps application**, seamlessly **integrating data** from **OpenAir, MySQL Workbench** and other sources, resulting in a **20% reduction** in **project cycle time** and a **15% increase** in **on-time project delivery**.

### 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

- Used Fine-Tuned **DenseNet121** and **ResNet50** models pre-trained on ImageNet, **augmented with custom layers** and **L2 regularization** technique, to **mitigate overfitting** and classify soil types from **1300 images**.
- Employed **t-SNE** for **visualizing** soil data in **lower dimensions**, revealing **clustering** and **distribution patterns**.
- Achieved **87.63% accuracy** with **ResNet50** and **85.57%** with **DenseNet121**, highlighting deep learning's role in improving agricultural soil classification.