

## Pranav Ramesh

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### EDUCATION

#### San Jose State University

M.S., Data Analytics; GPA: 3.58/4.00

San Jose, USA

Dec 2024

**Coursework:** Data Visualization, DBMS, Machine Learning, Big Data, Deep Learning, Data Mining

#### Dr. Ambedkar Institute of Technology

B.E., Computer Science and Engineering; GPA: 4.00/4.00

Bengaluru, India

Aug 2020

**Coursework:** Python, Cloud Computing, DBMS, SQL, Machine Learning, Web Technologies

### WORK EXPERIENCE

#### MarketMakerCRE

San Jose, USA

*Data Scientist Intern*

Jul 2024 – Present

- Develop Python web scraping scripts using Selenium and BeautifulSoup, enhancing data collection efficiency by 35% for market analysis.
- 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 I*

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

**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.