

# Aakanksha Padmanabhan

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## EDUCATION

**Rochester Institute of Technology**, Rochester, NY GPA 3.7  
Masters of Science in Computer Science Dec 2024

**K.J Somaiya Institute of Engineering and Information Technology**, Mumbai, India GPA 3.8  
Bachelors of Engineering, Information Technology Jun 2021

## TECHNICAL SKILLS

**Programming & Analytics:** Python, SQL, R

**Machine Learning:** Scikit-learn, Pandas, NumPy, XGBoost

**Visualization:** Tableau, Power BI, Matplotlib, Seaborn

**Databases:** PostgreSQL, MySQL

**Cloud Platforms:** AWS (Lambda, S3, Dyanmodb, API Gateway), Terraform

## WORK EXPERIENCE

**Bright Mind Enrichment and Schooling (BMEAS)** San Francisco, CA  
Data Analyst Jan 2025 – Present

- Analyzed volunteer resource allocation and workload distribution across 12 teams using SQL and R clustering analysis, identifying scheduling inefficiencies and recommending optimized task assignments to improve operational efficiency
- Built comprehensive PostgreSQL database tracking volunteer metrics including joining trends by resident status, team locations, weekly hours completion rates, and grant status by team, enabling data-driven program management decisions
- Developed predictive models using R time series analysis to forecast volunteer joining trends and availability patterns, achieving 86% accuracy against historical baselines to support strategic planning for 30+ annual events
- Created 10+ interactive dashboards analyzing volunteer contribution patterns across grant teams, street care programs, and new joiner trends, providing stakeholders real-time visibility into program performance and volunteer engagement

**Rochester Institute of Technology** Rochester, NY  
Data Analyst Mar 2023 – Dec 2024

- Analyzed user behavior patterns on alumni and giving web pages using Python and SQL, identifying top conversion paths and key drop-off points to support website optimization strategies
- Collaborated with marketing teams to monitor donation metrics and web performance, providing data insights that supported a 6-month fundraising campaign
- Conducted A/B testing on email newsletters and donation pages with 1,000+ recipients, measuring open rates, click-through rates, and unsubscribe patterns to optimize engagement
- Built 6 interactive dashboards in Looker Studio and Tableau tracking campaign KPIs (CTR, conversions, bounce rate) for 10+ stakeholders, enabling data-driven marketing decisions

**Accenture** Mumbai, India  
Application Developer Associate - Data Engineering & Analytics Support Team Jun 2021 – Aug 2022

- Developed ETL pipelines using Talend and SQL to process and integrate large datasets (50M+ records), supporting data quality improvements for client systems
- Built predictive models using Scikit-learn for maintenance analytics, contributing to failure prediction systems and operational optimization initiatives
- Created automated classification systems to process insurance claims, achieving 94% accuracy on validation data and supporting high-volume claim processing workflows

## PROJECTS

**How Similar Are You To A Celebrity** | React, Lambda, Rekognition, API Gateway, DynamoDB, Terraform, CloudWatch  
• Built a full-stack serverless web app enabling users to compare selfies with celebrity faces using AWS Rekognition, achieving 70% matching accuracy and enhancing user engagement  
• Deployed scalable infrastructure with Terraform and implemented CI/CD via AWS Amplify, reducing deployment time by 40% with CloudWatch monitoring.

**Credit Card Fraud Detection with Real-Time Monitoring** | Python, SMOTE, Random Forest, Neural Network, Streamlit  
• Developed an end-to-end fraud detection pipeline using SMOTE + ENN for class balancing and Random Forest & Neural Networks for classification, improving F1-score by 25% and reducing false positives by 18%  
• Deployed a real-time monitoring dashboard in Streamlit, enabling instant fraud insight and visualizations with automated updates on new transactions