

Rahul Ramachandra Shetty

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Professional Summary

Data Science professional with 3+ years of experience building impactful ML solutions and data pipelines across diverse industries. Adept at translating complex business problems into data-driven insights using SQL, Python, and cloud technologies. Proven track record of developing analytical frameworks that improve operational efficiency and drive measurable business outcomes.

Work Experience

HappiNest.AI

Florida, United States

AI Engineering Intern

Jun 2024 – Nov 2024

- Constructed AI-powered marketing pipeline using **Perplexity API** (Llama-3 32K), implementing **prompt engineering** techniques that reduced manual effort by **50%**
- Programmed **NLP sentiment analysis** algorithms with **Azure AI Studio**, creating custom modules to adjust content tone, improving audience engagement by **40%**
- Engineered social media distribution system with **Ayrshare API**, developing **Python** scripts for cross-platform publishing, increasing efficiency by **60%**
- Implemented fault-tolerant data pipeline using **Azure Blob Storage**, orchestrating **ETL** workflows and achieving **99.9%** system reliability

Moengage

Bengaluru, India

Software Engineer

Oct 2022 – Jul 2023

- Engineered **ML prediction models** using object-oriented **Python** modules for churn prediction and audience segmentation, improving **F1-score** and **AUC-ROC** metrics by **20%**
- Designed modular data analytics frameworks with **SQL** stored procedures and **Python** classes to extract and transform user behavior patterns, ensuring data integrity for strategic insights
- Implemented **A/B testing** framework with CI/CD integration leveraging **statsmodels** library to measure engagement impact, improving user retention by **25%**
- Architected scalable data processing microservices using **Python** and optimized **SQL** queries, enabling real-time analytics processing of **250GB+** daily data with **40%** reduced latency

Accenture

Bengaluru, India

Application Development Analyst

Nov 2020 – Sep 2022

- Developed data validation microservices using **SQL**, **Power Query**, and **DAX** with RESTful APIs to monitor critical business metrics across enterprise dashboards
- Optimized **Power BI** performance through code refactoring of **DAX** calculations and implementing efficient query folding techniques, decreasing report load times by **15%**
- Programmed automated test suites for Agile tools (Sprint Planner, Retrospective, Daily Standup), ensuring **99%** data accuracy in reporting workflows
- Established API-driven data governance framework through cross-functional collaboration with product owners, standardizing reporting endpoints and securing compliance with enterprise policies

Education

University of Colorado, Boulder

Boulder, United States

Master of Science in **Data Science** — GPA: **3.84/4.0**

Aug 2023 – May 2025

Dayananda Sagar College of Engineering

Bengaluru, India

Bachelor of Engineering in **Telecommunication Engineering** — GPA: **3.5/4.0**

Aug 2016 – Aug 2020

Technical Skills

Machine Learning: Supervised/Unsupervised Learning, Neural Networks, NLP, Feature Engineering, Model Optimization

Languages: Python, R, Java

Libraries: PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn

Big Data: PySpark, Azure Blob Storage, AWS S3, Google BigQuery

Tools: Jupyter, Git, Docker, Kubernetes, Azure AI Studio, Power BI

Academic Projects

Coal Insights: Predictive Modeling and Analysis | Python, Machine Learning

Aug 2024 – Nov 2024

- Built ML pipeline with **SVM** and **AdaBoost** for coal shipment carbon intensity prediction (**20,000+** records), achieving **69%** accuracy and **15%** performance gain through hyperparameter tuning
- Applied dimensionality reduction (**PCA & Association Rule Mining**) to reduce feature space by **40%** while preserving predictive power
- Created data visualizations with **Matplotlib/Seaborn** identifying 3 key factors accounting for **75%** of carbon intensity variance across mining regions

Uber Data Analysis | GCP, Python, BigQuery, Looker Studio

Nov 2023 – Dec 2023

- Processed **100,000+** Uber trip records using **Python** and **GCP Cloud Storage** for data cleaning and transformation with **99%** data accuracy
- Improved query performance by **25%** through **SQL** optimization in **BigQuery** and built **Looker Studio** dashboards boosting reporting efficiency by **40%**

Certifications

AWS Certified Data Engineer - Associate