

CHADALAVADA RAMYA PRAVALLIKA

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 GitHub Profile

 LinkedIn Profile

 Medium Profile

EXPERIENCE

•RMSI Pvt Ltd

Sep 2024 - Sep 2025

Engineer

Hyderabad

- Analyzed large-scale operational datasets to address data quality and performance gaps, applying **Python** and **SQL** workflows that improved data accuracy and reporting reliability.
- Designed and implemented automated **ETL pipelines** with validation and preprocessing logic, reducing manual data preparation effort by **25%**.
- Delivered **Power BI** and **Tableau dashboards** to stakeholders, enabling faster **data-driven decision-making** through KPI and trend analysis.

•Tutort Academy

Mar 2023 – Jul 2024

Data Science and AI intern

Remote

- Built and evaluated **machine learning models** for classification and regression problems to improve prediction accuracy on structured datasets.
- Conducted **exploratory data analysis, hypothesis testing, and A/B testing** to assess feature impact and user behavior.
- Automated analytical reporting and dashboards, reducing recurring analysis time and improving insight accessibility for business teams.

PERSONAL PROJECTS

•Data Sanct – Agentic Data Cleaning Platform

[Link to project](#)

Autonomous system for data profiling, cleaning, and validation

- Tools & technologies used: **Python, Pandas, NumPy, SQL, Statistical Analysis**
- Identified recurring data quality issues across raw datasets and designed an **agentic workflow to automate profiling, cleaning, and validation, significantly reducing manual preprocessing effort**.
- Implemented **statistical techniques for missing value treatment, outlier detection (IQR), and normalization**, resulting in up to 70% faster data readiness for analytics and machine learning use cases.

•Revenue Forecast & Pricing Optimization Engine

[Link to project](#)

Predictive analytics engine for revenue forecasting and pricing decisions

- Tools & technologies used: **Python, SQL, Time Series Analysis, Regression Models**
- Analyzed historical sales and pricing data to identify demand patterns and revenue drivers using **exploratory data analysis and statistical modeling**.
- Built **forecasting and regression models** to predict revenue trends and support pricing strategy, enabling data-driven financial planning and decision-making.

SKILLS

Programming & Query Languages: Python, SQL, C

Data Science & Machine Learning: Data cleaning and preprocessing, exploratory data analysis (EDA), feature engineering, statistical modeling, supervised learning (classification, regression), time series fundamentals, model evaluation and validation

Libraries & Tools: Pandas, NumPy, Scikit-learn, Matplotlib

Statistics & Mathematics: Probability, hypothesis testing, statistical inference, linear algebra

Databases & Cloud: MySQL, Microsoft Azure (fundamentals)

Version Control & Development: Git, GitHub, Jupyter Notebook, VS Code

Professional Skills: Analytical thinking, problem solving, stakeholder communication, data storytelling

EDUCATION

•Saveetha institute of Medical and Technical Sciences, Chennai

2018 - 2022

Bachelor of Technology in Electronics and Communication Engineering

- Published research paper in IEEE - [Link to paper](#)
- **Related Coursework:** Python Programming, C/C++ Programming, MATLAB, VLSI, Verilog

CERTIFICATIONS

– Microsoft - Azure Data Fundamentals DP-900

– Forage - BCG Data Science, PWC PowerBI, Deloitte Data analysis