VIGNESHWAR RAVIRAO

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Education

Indiana University Indianapolis

Indianapolis, USA

Master of Science, Applied Data Science: GPA: 4/4

Expected Aug 2026

Coursework: Machine Learning, Deep Learning, Data Science Programming

College of Engineering Guindy, Anna University

Bachelor of Engineering, Mechanical Engineering: GPA: 3.2/4

Coursework: Differential Calculus, Matrices

Chennai, India Apr 2020

Experience

Tata Consultancy Services Ltd.

Chennai, India

Data Analyst

May 2021 - Jul 2024

- Enhanced customer database accuracy by 98% by scraping 15,000+ sales leads using Python, cleaning, and integrating them into the master database.
- Saved 120+ hours of manual effort by developing a Python-Pandas tool to automate customer data integration during mergers and acquisitions.
- Increased team productivity by 35% by automating 80% of repetitive quality checks and reporting tasks using Python and Excel VBA.
- Improved marketing campaign efficiency by 25% by identifying 10,000+ active and inactive customers through SQL analysis in Snowflake.
- Accelerated pricing alignment process by 50% by building an Excel dashboard with advanced formulas to compare product prices
 post-merger.

BOM Analyst and Excel VBA Developer

Oct 2020 - Apr 2021

- Decreased manual effort by 85% and saved \$9,000 by automating the extraction and consolidation of BOM data using Excel VBA.
- Enhanced reporting speed by 70% by developing custom Excel VBA macros to automate weekly report generation.
- **Ensured 100% accuracy in BOM** data by collaborating with design engineers to clean and validate BOMs for two car models, eliminating errors and discrepancies.

Projects

Used Car Price Prediction | Linear Regression, R - Github

- Built a **linear regression** model in **R** to predict used car prices based on key attributes like brand, age, and ownership history.
- Automated the price assessment process, enabling accurate and data-driven pricing decisions for used car listings.

E-commerce Sales Analysis | SQL, BigQuery - Github

- Analyzed Target's e-commerce sales data using **SQL** in **BigQuery** to identify customer distribution, order trends, and payment behavior.
- Generated insights on sales growth, seasonal trends, freight costs, and delivery performance, enabling data-driven business decisions.

Technical Skills

Programming Languages: Python, MySQL, R Programming, Excel VBA

Libraries: Numpy, Pandas, Selenium web-driver, BeautifulSoup, Regex, Scikit-learn, PyTorch, Flask

Technologies: Snowflake, BigQuery, Tableau, Github, AWS, Docker

Machine Learning: Regression, Classification, Feature Engineering

Hypothesis Testing: A/B Test, Chi-Squared test, ANOVA, Z-test, Correlation test

Awards

Best Team Award - Recognized for outstanding contributions during mergers and acquisitions, and streamlining the customer data.

On the Spot Award - Awarded for improving team efficiency by developing automation tools for tasks such as data entry and quality checks.

Leadership / Extracurricular

Tata Consultancy Services Ltd.

Chennai, India

In structor

Nov 2023 - Dec 2023

• Taught Python to trainees through training sessions for a period of 2 months.

Data Science and Machine Learning Club

Technical Content Lead

Delivered technical presentations to our university students.

• Worked closely with other committee members to host events such as presentations, networking events.

Indianapolis, USA Oct 2024 - present