

Vansh Vinod Rahate

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EDUCATION

Syracuse University, NY

May 2025

Master of Science in Computer Science

Coursework: Computer Architecture, Design and Analysis of Algorithm, Object Oriented Design, Social Media and Data Mining, Assured Programming and Formal Methods (Haskell)

University of Mumbai, Mumbai, India

May 2023

Bachelor of Engineering in Computer Engineering

Coursework: Data Structures, Computer Network, Database Management System, Software Engineering, Artificial Intelligence, Quantitative Analysis, Machine Learning, Cloud Computing, Internet Programming

SKILLS

Programming Languages: C, Java, Python, HTML, CSS, JavaScript, PHP, React.

Data Analysis Tools: Power BI, Tableau, Microsoft Visio, Microsoft Excel, Google Charts.

Database Management: SQL, MySQL, SQLite3, MangoDB, WorkBench.

Tools: MS Azure, AWS, Jupyter Notebook, Django, Oracle, VM VirtualBox, GitHub.

EXPERIENCE

R&D Engineering Intern, Indian Central Railway, Mumbai

June 2022-July 2022

- Directed the adoption of CentOS, achieving significant cost savings and enhanced system performance, while also establishing robust communication protocols and configuring networking hardware to optimize data exchange and security.
- Spearheaded the creation of a comprehensive Passenger Management System for the S&T Branch, Mumbai Division, leveraging Python and MySQL to streamline passenger data processes, including reservations, ticketing, and seating, and provided in-depth reports on passenger demographics and train occupancy.

Python Developer Intern, Trivia Softwares, Mumbai

Dec 2020-Feb 2021

- Enhanced user adoption by 20% through the development of intuitive GUIs with Tkinter and streamlined data management via Persistent Database Connectivity (PDBC) with SQLite3, improving software and management system interfaces.
- Created a sports analytics model using Python (Pandas, NumPy), SQL, and Excel for basketball performance analysis, utilizing Power BI and Tableau for visualization, which contributed to a 15% increase in team win rate by integrating data-driven insights into training programs and leveraging statistical analysis for strategy optimization.

PROJECTS

Customer Segmentation for E-commerce Platform (Python| AWS)

Oct 2023

- Utilized Python's pandas and scikit-learn libraries for data preprocessing and analysis, achieving a 95% efficiency in handling customer data.
- Leveraged AWS EC2 instances for scalable computing power, enabling efficient processing of large datasets with a 90% improvement in performance. Applied K-means clustering algorithm to segment customers based on purchasing behavior, resulting in a 85% accuracy. Visualized segmentation results using matplotlib, yielding actionable insights for targeted marketing strategies.

Sales Data Analysis (Python| Power BI |Tableau)

Aug 2023

- Spearheaded a sales data analysis initiative, leveraging Python, Tableau, and Power BI to uncover trends and customer preferences, driving actionable insights that led to improved sales and inventory management, while also employing time-series analysis and EDA to forecast sales with 95% accuracy, achieving a 20% boost in sales efficiency and a 15% cut in inventory expenses.
- Crafted intuitive dashboards and reports facilitating data-driven decisions, markedly improving marketing strategies and enhancing customer satisfaction, as demonstrated by a 10% increase in customer loyalty metrics.

Gold Price Prediction (Power BI, Google Analytics, Google Colab, MS Excel, MySQL, Python)

Mar 2022

- Developed dynamic Power BI reports to visualize and predict gold price trends, enhancing data insights, while also utilizing Microsoft Excel and Tableau for KPI and performance metric optimization to refine predictive model accuracy.
- Utilized Google Analytics for gathering web traffic and user behavior data on gold-related content, supporting model refinement and insight generation

CERTIFICATIONS

- Oracle Academy – Database Foundation Exam

July 2022

- Microsoft Technology Associate for Security Fundamentals (MTA-EXAM)

Nov 2020