

ANANT RAJPUROHIT

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EDUCATION

Syracuse University

Master of Science - Computer Science

Syracuse, New York

Aug 2022 - May 2024

- Coursework: Design and Analysis of Algorithms, Database Management Systems, Structured Programming and Formal Methods, Social Media and Data Mining, Data Visualization, Cloud, OOP Java, Database Modelling and Warehousing

Pune University

Bachelor of Engineering - Computer Science, Minor in Artificial Intelligence

Pune, India

Aug 2018 - Jun 2022

- Coursework: Advance Data Structures, Data Engineering, Software Engineering, OOP, Business Intelligence & Analytics

SKILLS

Programming:	SQL, Python (Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn), HTML
Databases & Cloud:	MS SQL Server, Oracle, MySQL, PostgreSQL, Azure, AWS (S3, EC2, Redshift), Relational Database
Data Analysis:	PowerBI, Tableau, MS Excel(Pivot Table, VLOOKUP, Forecasting), Microsoft PowerApps, MS Access
Tools:	Docker, JIRA, ETL, DRF, Git, SSMS, SSRS, SDLC

PROFESSIONAL EXPERIENCE

Research Analyst Intern

Syracuse University

Jul 2024 - Present

Syracuse, NY

- Implemented **ML** models to automate query optimization, gathering training data and improving query performance by eliminating the need for manual tuning by 40%, while adapting to changes in data patterns and workloads.
- Architected and trained an adaptive optimization model, integrating **Reinforcement Learning** for decision-making and **Neural Networks** for performance prediction, resulting in a 30% reduction in resource usage and execution times.

Data Analyst Intern

UEX

Jul 2023 - May 2024

Bangalore, India

- Developed advanced SQL queries and **database objects** including triggers, stored procedures, and functions for transaction management in an **OLTP** system ensuring data integrity and supporting banking fraud detection.
- Engineered **financial dashboards** by integrating **PowerBI** with **AWS Redshift**, enhancing visualization of critical financial KPIs and improving data-driven decision-making by 25%.
- Leveraged Natural Language Processing (**NLP**) to preprocess and clean data from diverse formats, standardizing input for integration into database systems, improving data quality, and streamlining reporting processes by 20%.

Data Engineering Intern

EvolvingX

Sep 2020 - Jul 2022

Pune, India

- Spearheaded analysis for evaluating **500+** startups across India, enhancing decision accuracy and enabling startups to secure over **\$2 million** in funding.
- Designed comprehensive data models, schema, and optimized SQL queries boosting decision-making accuracy by **25%** in startup evaluation, while collaborating on market study **API** integration and **testing** within an **agile** environment.
- Engineered **ETL** pipelines with **Tableau** to create a **reporting system** and financial dashboard, delivering key startup KPIs on sales, valuation, funding, and market size, while optimizing data flow, achieving a 10% productivity boost.
- Developed robust data warehouses and data models on **AWS** cloud and SQL Server, while ensuring normalization and data integrity, enhancing startup metric evaluation and boosting SQL query performance by up to **42%**.
- Employed **Excel** for detailed financial analysis and revenue projection, employing **pivot** tables, **VLOOKUPS**, and complex formulas generating ad-hoc actionable insights and improving decision-making accuracy by 15%.
- Integrated a **Machine Learning** model into the database architecture using **Python's** NumPy, Pandas, and the LSTM algorithm to forecast 3-year startup revenue trends with 85% accuracy, driving data-driven investment decisions.
- Led cross-functional team collaborations & trained 10 interns, accelerating team efficiency & project contributions.

PROJECTS

Social Network Analysis - Twitter Users

- Conducted a **statistical analysis** utilizing Twitter API, collecting real-time data from 80,000+ users, focusing on crawling followers, constructing **network graphs**, and extracting insights into user behavior, & connectivity patterns.

Healthcare - Database enhancement

- Designed a healthcare database system for managing patient info, scheduling & billing, for the University Medical Center. Created **ER diagrams**, **data models**, **triggers**, & **security** protocols, resulting in a 20% processing reduction.

Customer Segmentation Engine

- Built a segmentation engine for an e-commerce platform using SQL Server, automating updates, integrating customer demographics & behavior, & optimizing queries through **indexing & normalization**, boosting marketing campaigns.