

# 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 Modeling and Warehousing

### Pune University

Bachelor of Engineering - Computer Science, Minor in Artificial Intelligence

Pune, India

Aug 2018 - Jun 2022

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

## SKILLS

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

## PROFESSIONAL EXPERIENCE

### Research Analyst

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 **Power BI** 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**, **triggers**, **data modeling**, & **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.