

ZEEL PATEL, MS

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EDUCATION

Master of Science in Software Engineering Systems

Expected May 2025

Northeastern University (Boston, MA)

Relevant Coursework: Program Structure and Algorithms, Object Oriented Design, Data Science, Database Management System

TECHNICAL SKILLS

Language: Python, C#, SQL, Java, PHP, HTML5/CSS

Databases: MySQL, PostgreSQL, NoSQL, Oracle, MongoDB, RDS

Machine Learning: Regression, Classification, Clustering, PCA, Hypothesis Testing, Data Analysis, Decision Modelling

Platform: Git, Eclipse, Visual Studio, Jenkins, Jira, Linux, Docker, Amazon Web Services (EMR, EC2, Route53, Cloud Front)

Frameworks: Spark, Spring Boot, FAST API, Flask, React JS, Java Script, Django

Expertise: Machine Learning, Artificial Intelligence, Analytics, Team Collaboration, Networking, Debugging

PROJECTS

Python-TextToSQLGenerativeAI (Python, Gemini, NLP, Streamlit)

Jan 2024 – May 2024

- Developed an NLP pipeline utilizing Google's Gemini for semantic analysis, enabling the conversion of unstructured text into structured SQL commands.
- Engineered a user-friendly interface with Streamlit, enhancing user interaction and accessibility for the text-to-SQL model.
- Integrated advanced natural language processing techniques to accurately interpret and generate SQL queries from natural language inputs.
- Conducted rigorous A/B testing to optimize the performance and accuracy of the text-to-SQL conversion, resulting in a 15% improvement in conversion accuracy.

ML-Real-estate Price Prediction (Python, Pandas, NumPy)

Sep 2023 – Dec 2023

- Executed comprehensive data visualization using Matplotlib and Seaborn, providing insightful analyses and visual representations of real estate data trends.
- Implemented feature engineering and scaling techniques, including Min-Max scaling and Standardization, to enhance machine learning model performance.
- Applied one-hot encoding for categorical variables and utilized K-fold cross-validation, achieving an impressive 82% accuracy rate in predictive modeling.
- Conducted extensive data cleaning and preprocessing, ensuring high-quality data for machine learning applications and predictive analysis.

Power BI-Sales Insight Dashboard (Data Visualization, DAX, Power Query, SQL)

Sep 2023 – Dec 2023

- Designed a dynamic Sales Insight Dashboard in Power BI, integrating data from over five sales channels, delivering a comprehensive view of sales performance and trends.
- Developed interactive visualizations and drill-down capabilities in Power BI, increasing stakeholder engagement with sales data exploration by 20%.
- Automated data refresh and scheduling processes in Power BI using DAX and Power Query, reducing manual update efforts by 70% and ensuring daily data accuracy.
- Conducted advanced data analysis and mining to uncover critical sales insights, leveraging SQL and Power BI's analytical tools for strategic decision-making.

EXPERIENCE

Ordex Technology Solution Inc, (Java, Spring-Boot, Jira, SQL)

Feb 2023 – Jun 2023

Software Developer Intern

Gujarat, IN

- Handled and resolved 10 client support ticket weekly using Jira platform, which significantly improved client satisfaction by 50%.
- Assisted team of 4 member in designing CI/CD pipeline using Jenkins for automated build, test, and deployment.
- Analyzed and created documentation on new live project acquired by the company using debugging techniques and postman.
- Documented requirements and process to integrate third party API for an existing project reducing 30% workload.

Softvan Pvt Ltd,(Python, Data Science, SQL)

Jun 2021 – Jun 2022

Full Stack Developer Intern

Gujarat, IN

- Developed robust data-driven applications by analyzing and processing data using Python libraries such as Pandas and NumPy, enhancing data insights and decision-making processes.
- Conducted comprehensive data analysis and validation, achieving a 99.9% accuracy rate in identifying critical data issues, which led to a reduction of data inconsistencies by 50%.
- Designed and optimized relational databases, crafting efficient schemas and SQL queries, which streamlined data management and improved the performance of data-centric applications.

OPEN-SOURCE EXPERIENCE

Police Data Trust

Boston, MA

- Contribute to project using TypeScript, Python Flask, Docker, and PostgreSQL to facilitate search end point API.
- Develop unit tests for components and integration tests for seamless module interactions and automated 100% API testing.
- Collaborate with project manager to understand project problems and delivered end point within tight deadlines.