

Janki Patel

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Education

Bachelor of Science in Computer Science

January 2020 – May 2024

University of Illinois at Chicago, IL

Skills

Programming Languages: Java, Python, XML, JSON, HTML, SQL, Linux, HTML, CSS

Software/Frameworks: IntelliJ, Eclipse, VsCode, MySQL, GitHub, Tableau, Power BI, MySQL Workbench

Data Analysis: Data preprocessing, exploratory data analysis, building and tuning machine learning models, interpreting results.

Tools and Libraries: scikit-learn, TensorFlow, PyTorch, matplotlib, pandas

Internship

Data Analytics

IT Experts, INC

May – June 2023

- Used Knack for creating custom database applications to address their unique needs.
- Write complex SQL queries and join tables to obtain the necessary data for analysis.
- Leveraged Python and libraries such as matplotlib and pandas to perform data analysis, which facilitated the identification of key business trends and informed strategic planning.
- Received mentorship and guidance from experienced data scientists, which enhanced practical knowledge and resulted in the successful completion of multiple high-impact projects.

Experience

Youth Program Mentor

June – August 2023

- Assist in teaching HTML concepts
- Assist in teaching Oracle Database Structure including SQL

Engineering Student Success Program

August 2023 – May 2024

- Grading the student submission
- Assist in teaching and providing more resource that is provided by College of Engineering at UIC
- Leading the group of 5 to 6 students while doing the department project.

Projects

CTA Transit

February 2023

- Developed a console-based Python program to interact with a CTA2 L daily ridership database.
- Retrieved and computed data using SQL queries.
- Implemented Python code to calculate and display various statistics.
- Used the matplotlib library to create graphical representations of ridership data.

Binary Decision Tree Learning with ID3 Algorithm Implementation

September 2023

- Implemented the ID3 Decision Tree Algorithm for binary classification using Python.
- Calculated entropy and information gain.
- Evaluated decision tree models and tuned hyperparameters for dataset evaluation.

Data Analysis of Retail Store Sales

February 2024

- Analyzed sales data to identify trends and patterns.
- Utilized Tableau to create interactive dashboards for data visualization.
- Applied Python and SQL for data extraction, transformation, and loading (ETL) processes.
- Conducted statistical analysis to support business decision-making.

Supervised Machine Learning for Tweet Classification

April 2024

- Analyzed Twitter data to predict political inclination from tweet text.
- Used text processing techniques to clean and tokenize tweets.
- Constructed TF-IDF feature vectors and trained a Support Vector Machine (SVM) classifier.
- Evaluated model performance using cross-validation, achieving significant improvement over baseline models.

Certifications

Certificate of Completion

June 2023

Linux Administration

Organizations

Women in Computer Science

August 2021- May 2024

University of Illinois at Chicago