ROHAN GAVANKAR

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TECHNICAL STRENGTHS

Computer Languages Python, SQL, R, C++, Java, Javascript, HTML, CSS
Other Skills/Frameworks Git, Numpy, Pandas, Azure, Sklearn, NLTK, Keras, Neo4j, MySQL, TensorFlow

EDUCATION

University of Illinois at Urbana-Champaign *Aug 2022 - Dec 2025*
B.S in Statistics & Computer Science / Certificate in Data Science GPA: 3.98
Relevant Coursework:
Applied ML, Linear Algebra, Data Structures/Algorithms, Stats and Probability, Databases, Numerical Methods
Awards: Stats Ambassador, National Merit Finalist, Broadridge Scholarship, Dean's List (Fall 22, Spring/Fall 23)

EXPERIENCE

JP Morgan Chase June 2024 - August 2024
Software Engineer Intern *Chicago, IL*

- Automated field OCR extraction from loan agreements by finetuning BERT model on Instabase with 95% accuracy
- Developed and optimized workflows using Spring and Kafka and consolidated extracted fields onto an Adobe Acroform
- Built API endpoints in Java to generate a flow, extract Instabase flow results, and configure JSON to fit form needs
- Presented to panel of engineers, placed 1st out of 14 Chicago Tech Center Intern teams at the Intern Showcase

Illinois Business Consulting Sep 2023- Present
Technical Project Manager *Champaign, IL*

- Leading team of 10, partnering with Gies College of Business to build out a database for IBC information in MySQL
- Using Pinecone Vector DB to construct embeddings for project docs and computing similarity searches to user queries
- Used Slack SDK and Azure App Service to push to production a working internal Slackbot for the entire organization
- Optimized recruiting and staffing process by developing a data dashboard app in Flask to visualize applicant pool

COUNTRY Financial May 2023 - Dec 2023
Data Science Intern *Champaign, IL*

- Project Manager for team of six; Developed a script to automate actuarial data extraction and send to Indications team
- Led development of Zena Job dynamic network graph visualization web app, integrating batch API calls for real time data and historical data, and facilitating assessment of successes and failures through Directed Acyclic Graphs
- Automated source data extraction from Policy Pro for 40% quicker test validation, using Robot and Selenium
- Conducted evaluation of ChatGPT use cases within the insurance industry, built Chatbot with Langchain

Gies Disruption Lab September 2023- Dec 2023
Software Engineer *Champaign, IL*

- Finetuned open source Text to SQL model to Spider database containing natural language queries and SQL outputs
- Trained transformers model to effectively extract column names from natural language and match it with the database
- Built chatbot to deliver company ESG data to financial advisors, with context storage and conversational flow

PROJECTS

IlliniProf — *SQLAlchemy, MySQL, Flask, HTML, Google Cloud SQL*

- Developed IlliniProf, a professor and course rating system, designing and optimizing an SQL database with entities like Professors, Ratings, Comments, Users, etc., and advanced stored procedures, triggers, and transactions
- Enhanced database performance with query indexing strategies, reducing query execution time and cost by 60%
- Enabled users to modify professor ratings, add and delete comments, and view professors by department and course

Student Grade Prediction with Bayesian Hierarchical Modeling — *R*

- Constructed a Bayesian Hierarchical Model in R fitted with a Gibbs Sampler MCMC algorithm to student course data
- Compared the hierarchical model to an independent and pooled model, achieving a median MSE of 0.36

Bank Data Modeling — *Python, Pandas, Sklearn, Matplotlib*

- Performed ETL on 5,000 rows of data to convert categorical variables into numerical variables using dictionaries
- Predicted whether customers would make a deposit to a bank using 16 features such as marital status and income
- Built an ensemble ML model using GradientBoost, RandomForest, and XGB Classifiers, achieving 90% accuracy