Diya Patel

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EDUCATION

University of Illinois Urbana-Champaign, Gies College of Business (GPA: 3.93/4.0)   **Champaign, IL, USA**
Master of Science in Business Analytics (STEM designated program)   Aug 2023 - May 2024

Manipal Academy of Higher Education, Manipal Institute of Technology (CGPA: 8.73/10.0)   **Manipal, India**
Bachelor of Technology in Computer Science and Engineering (*Minor*: Big Data Analytics)   Aug 2019 - June 2023

EXPERIENCE

Discovery Partners Institute (University of Illinois System)   **(Remote) Chicago, IL, USA**
Intern, Applied R&D Consultant   *Jan 2024 – April 2024*
- Collaborated with a team to research Large Language Model (LLM) safety and generative AI, analyzing market offerings, regulations, and frameworks, listing problems to identify a product opportunity.
- Developed a go-to-market strategy to capitalize on the identified LLM safety and generative AI product opportunity.

Online PSB Loans Ltd.   **Ahmedabad, India**
Intern, Business Analyst   *Jan 2023 – May 2023*
- Leveraged data visualization tools (Tableau, Plotly Dash) to analyze loan application data. Designed informative dashboards with KPIs to improve decision-making processes and operational efficiency (faster loan processing for small businesses, MSMEs).
- Collaborated with cross-functional teams to find key insights from the data, contributing to strategic decision-making and enhancing the overall efficiency of loan processing operations.

Nividous Software Solutions Ltd.   **(Remote) Mumbai, India**
Summer Internship   *June 2022 – July 2022*
- Engineered Robotic Process Automation (RPA) solutions using Nividous Studio, specializing in web, desktop, and database management automations, along with error and exception handling.
- Utilized Natural Language Processing (NLP) concepts and Regular Expressions in Python3 within Nividous Studio to analyze customer documents, identify specific fields, and extract relevant data.

PROJECTS

Univar Solutions Ltd.   **Champaign, IL, USA**
1st & 2nd Semester, Business Practicum Course   *Aug 2023 – May 2024*
- Developed a Product Recommendation Model using ML. Collaborated in a team to address virtual collaboration challenges, masked data interpretation, and outlier management. Presented findings and best model selection to clients.
- Applied analytical skills to navigate client needs, transforming the project into a holistic problem-solving journey. Cultivated adaptability and resilience through exposure to real-world challenges, enhancing problem-solving and teamwork capabilities.

Twitter (Now X) Sentiment Analysis and Effects on the Stock Market of Tesla Company   **Manipal, India**
8th Semester, Final Year Project   *Jan 2023 – April 2023*
- Collected tweets using Python's snscrapper library, conducted data preprocessing, and performed sentiment analysis with NLTK and TextBlob libraries.
- Employed Tableau for data visualization and stock price analysis, exploring the correlation between Twitter sentiment and Tesla's stock market performance.

Trigram Combined Taggers   **Manipal, India**
7th Semester, group project in NLP   *Oct 2022 - Oct 2022*
- Employed the Treebank and Brown corpora to evaluate the accuracy of Trigram, Bigram, and Unigram Taggers, both independently and in combined forms.
- Implemented the Katz backoff (n-gram) model to assess tagger performance, contributing to a comprehensive understanding of NLP techniques and tagger models.

SKILLS

Programming Languages: C, C++, Python, R, SQL, Java, Bash/Terminal, Shell Scripting, HTML5, CSS, JavaScript, PHP/MySQL, MongoDB (NoSQL).

Technical skills: Web Development, Web Application.

Software/Packages: Microsoft Office (Word, PowerPoint, Excel), Visual Studio, Tableau, Plotly Dash, RStudio, Wolfram Mathematica, Knime Analytics Platform, AWS, BotPress, GNS3, Wireshark, Keil µVision5, MAX + plus II.

Operating Systems: Windows, Linux (Ubuntu).