ADITI YADAV

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Education

Master of Science, Information Systems

Northeastern University, Boston, USA - 3.7 GPA   Expected December 2024
- Volunteered for AI Skunkworks community, conducted AI workshops & researched new advances in Generative AI & data science

Bachelor of Engineering, Computer Science

Savitribai Phule Pune University, Pune, India - 3.6 GPA   May 2020

Professional Experience

Data Analyst   September 2023 - Present

Northeastern University - MSIS Bridge, Boston, USA
- Devising marketing strategies to increase student enrollment for Bridge program by analyzing student profiles & demographics & generating Tableau reports to collaborate with cross-functional team
- Identify core, in-demand, and outdated courses using predictive analytics, aligning them with current market & industry opportunities & optimizing staff & resource needs

Research Assistant   March 2023 - August 2023

Northeastern University - EDGE, Boston, USA
- Reduced dropout rates for online courses by 15% by designing interactive Power BI dashboards to analyze course feedbacks, segment target audiences & personalize content

Technical Product Engineer   June 2021 - July 2022

ALLSCRIPTS HEALTHCARE INC, Pune, India
- Led a team of 5 in designing over 50 API test cases for Electronic Healthcare microservices
- Published 10+ customized PowerBI reports, showcasing critical Patient Key Performance Indicators (KPIs) for medical diagnosis
- Reduced cost by 30% & ensured single-click master job by revamping daily ETL pipelines & parallelizing workflows to fetch structured & unstructured datasets from Azure SQL Server, data marts & Blob storage

Research Assistant   June 2019 - August 2019

ATHENS INFORMATION TECHNOLOGY, Athens, Greece
- Developed a Flask web application prototype using computer vision to detect user emotions & demographics for an age-restricted vending machine, using OpenCV & deep learning techniques such as convolutional neural networks (CNNs)

Data Analyst - Intern   June 2018 - October 2018

DEFENCE R&D ORGANIZATION, Pune, India
- Reduced computation for payroll management system by ~40% by optimizing queries using views & moidying join conditions
- Developed queries to efficiently fetch data from centralized data warehouse for 10+ financial microservices such as tax deductions & service exemptions

Technical Skills

- **Programming**: Python, SQL, R, Matlab, C, C++, Javascript, Java, HTML, Sagemaker
- **Cloud & Data Services**: SQL Developer & Modeller, MySQL, Amazon Web Services, Microsoft Azure, Snowflake
- **Software/Tools**: G Suite, Microsoft Office, Github, ServiceNow, SAS, Salesforce, Alteryx, Jupyter
- **BI & Data Visualization Tools**: Tableau, PowerBI, Matplotlib, Plotly, Seaborn, Altair, Microsoft Excel
- **Libraries/Frameworks**: Pandas, Numpy, Scikit-Learn, SciPy, PyTorch, SHAP, Tensorflow, Keras, HuggingFace, NLTK, SpaCy
- **Others**: Agile, Scrum, Written & Verbal communication, Business & Market research, Leadership skill, Stakeholders Engagement, Requirements gathering, Networking, Problem Solving, Storyboarding & Presentation, Strategic Planning, CFA level 1 candidate, Self- starter

Academic Projects and Publication

Portfolio Construction Apple Stock Price, Northeastern University   January 2023 - March 2023
- Constructed model portfolios, using web scraping to acquire company financials from SEC filings & applying time series forecasting models like Prophet, GARCH & ARIMA to predict stock prices
- Generated weekly trading signals using statistical, quantitative, and machine learning models, evaluating model performance to optimize signal generation

NU-Music, Northeastern University   January 2023 - March 2023
- Designed and developed a data model, relational database, tables & views for a Spotify-like music app, using SQL Data Modeler & Developer along with implementing business logics & rules

Fine-tuning LLMs for Text Correction and Summarization, Northeastern University   November 2022 - December 2022
- Automated handwritten note transcription using Yolo, tesseract & transformer models like BERT, achieving 100% accuracy
- Performed Topic Modeling & keyword extraction using Sentence Transformers & graph neural networks
- Generated abstractive summaries using state-of-the-art transformer models like Flan-T5