Yash Vyas

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EDUCATION

Indiana University Bloomington   Bloomington, Indiana, USA
Masters of Science in Data Science | CGPA: 4/4   *Aug 2024 – Expected May 2026*
Coursework: Statistics, Probability, Data Visualization, OOPs, Deep Learning, Data Structures, Data Mining

Vellore Institute of Technology   Vellore, India
Bachelors of Technology in Computer Science | CGPA: 3.8/4   *Aug 2017 – May 2021*

EXPERIENCE

Data Scientist   July 2021 – July 2024
Signify (Philips)   *Bengaluru, India*
- Recognized as **Top Performer** for optimizing ROI by 10% across 6 global markets applying Market Mix Modeling and designed a KPI dashboard with Streamlit, reducing execution time by 2 weeks
- Reduced Global Consumer Channel attrition by **6%** through weighted gradient boosting, NLP for text analytics, OCR for extracting information from resumes (text, images), and DBSCAN for employee segmentation
- Implemented topic modeling and sentiment analysis on scraped customer reviews utilizing Beautiful Soup, Snowflake, and BERT, contributing to **$2 million** increase in revenue for targeted products
- Orchestrated a Power BI simulation tool for price elasticity analysis, influencing strategic pricing adjustments
- Co-developed a hybrid recommendation system to provide product suggestions leveraging ALS algorithm, Snowflake, and AWS, boosting multi-device purchases by **25%**
- Collaborated with data engineers to automate data validation for MMM, saving **1 week** in data collection

Data Science Engineer Intern   Feb 2021 – June 2021
Signify (Philips)   *Bengaluru, India*
- Integrated R functionalities into Python by adopting Rpy2, improving cross-functional project workflows
- Built time series forecasting pipelines for financial planning across 3 markets, applying ARIMA, XGBoost, LSTM, and 1D CNN, enhancing accuracy to **95%**

Risk Data Analytics Intern   May 2020 – June 2020
KPMG   *Remote*
- Devised SVM-based credit risk models to predict loan defaults for thin-file clients, achieving **94%** accuracy

PROJECTS

BackOpsai | Github
- Secured **First** Place and **$950** prize among 315+ participants at IU Hackathon by developing a no code AI backend automation agent that reduced CRUD operation time by 80% using OpenAI and FastAPI/SQLite for monitoring

FarmEasy | Github
- **Finalist** in Agrinovus Producer-Led Innovation Challenge at IUB among **50+** candidates
- Spearheaded a multimodal RAG platform for farmers using Mistral LLM, Whisper, Google API, Streamlit, increasing across 10+ states with real-time regulatory compliance guidance

Textly | Github
- Engineered Textly, a style-based text transformation platform using BERT models and Flask, enabling paraphrasing across languages and writing styles with **45** BLEU score accuracy

No Brainer | Github
- Created a real-time Flask app to classify brain tumors using transfer learning on ResNet50, attaining **97%** f1 score

SKILLS

Programming: Python, R, Matlab, SQL (SQLite, PostgreSQL), C++, PySpark, Git, Docker, Jupyter, FastAPI
Data Science: Numpy, Pandas, Sklearn, Scipy, Tensorflow, Pytorch, Keras, Matplotlib, Seaborn, Plotly, AB Testing
Data Engineering: AWS, Google Cloud, S3, Snowflake, ETL, Tableau, PowerBI, Streamlit, Excel
Machine Learning: Regression, Classification, Clustering, Predictive models, NLP, Computer vision