YASH VYAS

Mail: yashvyas@iu.edu ◇ Linkedin: linkedin.com/in/yashhvyass ◇ Github: github.com/yashhvyass

EDUCATION

Master of Data Science, Indiana University Bloomington — Expected May 2026
Relevant Coursework: Statistics, Machine Learning, Computer Vision, Natural Language Processing, Databases

Bachelor of Computer Science, Vellore Institute of Technology — Aug 2017 - May 2021

SKILLS

Languages and Platforms	Python, R, SQL, AWS, SAP DI, GCP, Tableau, Power BI, Snowflake, Streamlit
Other	Docker, Flask, FastAPI, AB Testing, Pandas, sklearn, Pytorch, Snowpark

EXPERIENCE

Data Scientist — July 2021 - July 2024
Signify (Philips Lighting) — *Bangalore, India*

- Enhanced Market Mix Modelling by optimizing ROI by an average of 10% across 6 global markets using the UCM algorithm and designed a KPI monitoring dashboard with Streamlit, reducing execution time by 50%.
- Reduced attrition rates by 6% for Consumer Channel, by implementing LightGBM with weighted SMOTE, achieving a 90% F1 score on employee and resume data extracted using NLP and OCR techniques.
- Developed and implemented a regression-based simulation tool incorporating appropriate transformations for Price and Sales optimization of lighting products; achieved a 15% increase in market share and $500k in annual revenue growth.
- Leveraged Snowflake, NLP and BERT transformer for text analytics and sentiment analysis on scraped customer reviews leading to 5 million dollars revenue growth for selected products.
- Automated data validation process for MMM by creating stored procedure in Snowflake for efficient communication between stakeholders reducing time by almost 30%

Data Science Intern — Feb 2021 - June 2021
Signify (Philips Lighting) — *Bangalore, India*

- Integrated R-based models into Python using Rpy2 library which helped fellow team members in leveraging R.
- Developed a forecast model for the Financial Planning and Analysis team by leveraging traditional ARIMA-based time series analysis, machine learning algorithms, and LSTM networks.

PROJECTS

Textly Tool (NLP, Transformers, Pytorch, Docker, FastAPI, AWS, Git) (Try it here):

- Built an end-to-end text paraphrasing solution using Hugging Face's BERT, achieving a BLEU score of 45. Offered various paraphrasing styles, reducing text processing time to under 5 seconds per request for real-time user experience.

No-Brainer (CNN, Flask, Git):

- Spearheaded a groundbreaking Flask web application for brain tumor detection by developing a CNN model in Pytorch, achieving an impressive 97% accuracy using ResNet50 architecture via transfer learning.

HONORS

- **Top performer** at Signify (Phlips Lighting): MMM
- **Top 10%** in Leaf Classification Challenege: Image Classification Hackathon conducted on MachineHack
- **Campus Ambassador**: Facebook Developer India Circle, Indore; Facilitated lectures from industry experts for university students