

# JATIN KAYASTH

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## WORK EXPERIENCE

### S&P Global

New York

#### *Machine Learning Researcher Intern*

Jun 2023 - Aug 2023

- Reduced processing time by 80% and increased data accuracy of deep learning models by 10% by developing a data preprocessing pipeline for collecting and cleaning precipitation data from NASA
- Achieved an accuracy rate of 65% by researching and implementing cutting-edge machine learning algorithms to develop SRGAN models for transforming low-resolution images into high-resolution images

### Infosys

India

#### *Data Scientist*

Dec 2018 - Jul 2022

- Improved Company's rank on SuperGLUE tasks from 15th position to 8th position by fine-tuning models such as GPT2, GPTNeo, BERT, RoBERTa, ALBERT for text summarization, text generation, question-answering systems
- Reduced manual data entry task by 70% while developing and managing the entire backend for applications such as Text analytics program using HMM and Viterbi Algorithm, Named Entity Recognition for resume
- Achieved f1-score of .93 to detect credit cards fraudulent transactions by building a machine learning model capable of handling huge class imbalance
- Collaborated with cross-functional teams to integrate real-time monitoring tools with predictive alerting capabilities, resulting in a 30% increase in proactive issue resolution

## EDUCATION

### Yeshiva University

New York, US

#### *MS in Artificial Intelligence*

Graduation Date: Dec 2023

### Indian Institute of Science

Bangalore, India

#### *Master's degree in Telecommunication*

Graduation Date: Jul 2016

### PEC University of Technology

Chandigarh, India

#### *Bachelor's degree in Electronics and Electrical Communication*

Graduation Date: Jul 2013

## PROJECT EXPERIENCE

### Yeshiva University

New York, US

#### *Autonomous lane navigation robotic car*

Aug 2023 - Dec 2023

- Demonstrated better performance than state-of-the-art NVIDIA model in terms of R-squared value for larger datasets resulting in 90.6 compared to 65.6 for NVIDIA model by creating a CNN model with fewer parameters
- Increased the predictive capability by 38% compared to traditional methods using implementation of advanced data preprocessing techniques to enhance model performance and accuracy

### Katz school for science and health

New York, US

#### *Katzbot - chatbot*

Jun 2023 - Aug 2023

- Created chatbot for Katz school for science and health using LLM and RASA framework, reducing the time requirement for the data generation from multiple webpages and pdf files from months to few minutes
- Utilized LLM and RASA framework to develop a chatbot for Katz School, streamlining data generation from various sources and reducing time requirements by more than 70%

## SKILLS

NLP, LLM, Generative AI, ReAct, Deep Learning, Langchain, Transformers, Huggingface, Pytorch, Tensorflow, AWS Services, Python, Pandas, Numpy, Scikit-Learn, SQL, NoSQL, Data Science, Feature Engineering, Predictive Analytics, Model Evaluation.