

KRITIK SETH

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EDUCATION

New York University, Center for Data Science

New York, USA

Master of Science, Data Science (NLP Specialization) (GPA: 3.73/4.00)

May 2024

- Relevant Courses: Machine Learning, Big Data, Cognitive Modeling (Reinforcement Learning), Probability & Statistics, Natural Language Processing, Optimization & Computational Linear Algebra, Natural Language Understanding NLU, Advanced Python.

NMIMS University, MPSTME

Mumbai, India

Bachelor of Technology, Data Science (GPA: 3.88/4.00)

May 2022

- Relevant Courses: Data Structures & Algorithms, Machine Learning ML, Deep Learning DL, Computer Vision CV, NLP, Financial Engineering Risk Management, Business Visualization, Cloud Computing, Statistical Modeling, Artificial Intelligence AI.

TECHNICAL SKILLS

- Programming Languages: Python, Cython, C, C++, R, SAS, MATLAB, SQL, PL-SQL, NoSQL, PostgreSQL, MySQL, Excel VBA.
- Tools: PyTorch, TensorFlow, Scikit-Learn, Langchain, Tableau, PowerBI, Snowflake, Teradata, Hadoop, MapReduce, PySpark, Spark, Google Cloud Platform GCP, Amazon Web Service AWS, PowerPoint, Excel, Docker, Databricks, Kafka, Hive, Jira, Agile.
- Algorithms: Timeseries, Linear & Logistic Regression, Supervised & Unsupervised Learning

RELEVANT EXPERIENCE

NYU Stern School of Business – Data Science Project Lead (New York, US)

May 2023 – Present

- Led development of **publicly operational** Carbon Compass tool for 'NYC Local Law 97,' championing energy efficiency in compliant buildings. Spearheaded end to end project management, ensuring seamless execution from ideation to deployment.
- Designed and published Tableau dashboard using data visualization tools merging energy benchmarking & mortgage data from top banks, offering comprehensive view of NYC's LL97 carbon emissions' major financiers for sustainable finance & compliance.

Memorial Sloan Kettering Cancer Center – Graduate Student Researcher (New York, US)

Sept – Dec 2023

- **Led a cancer research initiative**, employing Large Language Models and Named Entity Recognition (NER) to automate gene annotation in research articles. Streamlined updating process of OncoKB database by accelerating gene annotation through the development of a BioMed BERT powered model, **mitigating manual efforts and reducing time intensive process.**

Logitix – Data Science Intern (Florida, US)

June – Dec 2023

- Trained an ensemble machine learning model (XGBoost and SVM) to predict ticket tiers with 94% accuracy, securing lucrative partnerships with multiple prestigious sports venues and directly **generating \$100K in revenue** through ticket sales.
- Leveraged continuous integration and continuous development practices, including test automation and monitoring, to ensure successful deployment of ML models and application code, while ensuring communication with app development team.
- Formulated dynamic pricing problem as price forecasting problem and developed custom analytical explainable models that generated insights to help the pricing team, **reduced the pricing decision making time by 15 minutes.**
- Collaborated with data analytics team to enhance clustering algorithms, focusing on business objectives and model accuracy. Developed business solutions dashboard to convey technical insights to non-technical stakeholders through data storytelling.

Persistent Systems – Machine Learning Intern (Mumbai, IN)

Jan – April 2022

- Accelerated manual classification of cells in histopathological images, resulting in **80% increase in efficiency**, by building Image Segmentation Models to detect and count different types of cells.
- Enhanced accuracy by 15% and expedited preprocessing with **40% increase in speed to 3 seconds** by streamlining data pipeline to incorporate Deep Learning model for keyword extraction on text, post speech-to-text conversion.

AkzoNobel – Data Science Intern (Mumbai, IN)

Aug 2021 – Mar 2022

- **Improved accuracy of model by 20%**, as measured by its ability to classify colors based on reflection values, by implementing ensemble of Random Forest and Light Gradient Boosting Models (classification) using Voting classifier.

Kenmark ITAN – Junior Data Science Associate (Mumbai, IN)

April – July 2022

- Led development of text cleaning pipeline, **reducing processing time by 40% to 7 seconds** and expediting integration of data.
- Implemented a baseline recommendation system using sentiment analysis for a client's social media application, leading to an **increase in user retention time by 3 minutes** as validated through **A/B testing**. Authored end to end documentation.

Sapio Analytics – Data Analyst Intern (Mumbai, IN)

April – June 2022

- **Maximized supply chain efficiency** of COVID-19 vaccine deliveries by spearheading the development of a collaborative dashboard (Tableau & Dash), leveraging AWS to extract key metrics. Presented it to 3 Andhra Pradesh government leaders.
- Analyzed historical data and market trends to predict need of essential supplies at hyper-granular level in India (ad hoc queries).

SELECTED PROJECTS

Suspicious Clause Detection in T&C Documents (TensorFlow, HuggingFace, NLTK)

Nov – Dec 2023

- Built NLP web app which detected suspicious clauses in lengthy T&C documents by fine tuning large language models (GPT).

Backtesting Financial Analysts' Future Predictions (OpenAI, LangChain)

May – June 2023

- Utilized LLMs and LangChain for backtesting, extracting key information and timelines for outcome detection.

Moving Target Interception – Multi-Agent Reinforcement Learning (MARL) (Python, NumPy, OpenCV)

Mar – May 2023

- Engineered and published a MARL framework, training agents to make coordinated decisions to capture an evasive thief.

Music Recommendation System (Spark, Dask, Python, Hadoop, NumPy)

Mar – April 2023

- Developed **collaborative filtering** based music recommendation system on large-scale interactions data (50GB+), achieving 3 fold improvement in mean average precision (MAP) over baseline. Performed data mining to improve model.

Analyzing Optimal Video Game Playing Condition (PyTorch, sklearn, Scipy, statsmodels, statistical testing)

Nov – Dec 2022

- Collaborated with a cross-functional team to execute Kolmogorov-Smirnov **statistical test**, validating Moore's Law.
- Trained a neural network model with 2x improvement in predicting FPS compared to traditional ML approaches (regression).

Swachhdata – 60,000 downloads (Regex, Git, PyPi, NLTK, OpenCV, Gensim, NumPy and Pandas)

May 2021 – Present

- Programmed 3000+ lines to develop this library, delivering modular preprocessing & pipeline tools for data, text and image ETL.

Wherebnb (Python, Flask, TensorFlow, Scikit-Learn, HTML-CSS, JavaScript and Tableau)

Aug – Oct 2020

- Built Airbnb clone and used Deep Learning for price predictions of real listings and provided data analysis using real Airbnb dataset.
- Implemented state-of-the-art text generation LSTMs to analyze listings and provide hosts with tailored title recommendations.