# KRITIK SETH

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#### **EDUCATION**

New York University, Center for Data Science

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

New York, USA 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, PowerPoint, Apache Spark, PySpark, Google Cloud Platform GCP, Amazon Web Services AWS, Excel, Docker, Databricks, Hive, Jira, Agile.
- Math & Statistics: Linear Regression, Logistic Regression, ANOVA, K Nearest Neighbors, Neural Networks, Dimension Reduction. Ridge/Lasso (L1/L2) Regularization, K Means, Decision Trees, Gradient Descent, SVM, Bagging, Boosting, Probability Theory.

#### 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)

- 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 (OpenAl, LangChain, CUDA, Bash) May - July 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.

<u>Music Recommendation System</u> (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.