

KRITIK SETH

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EDUCATION

New York University, Center for Data Science

New York, USA

Master of Science in Data Science (GPA: 3.62/4.00)

May 2024

- Relevant Courses: Machine Learning, Big Data, Computational Cognitive Modelling, Probability & Statistics, Natural Language Processing, Machine Learning in Finance, Optimization and Computational Linear Algebra.

NMIMS University, MPSTME

Mumbai, India

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

May 2022

- Relevant Courses: Programming in C++, Machine Learning, DL, CV, NLP, Financial Engineering & Risk Management, Financial Institutions & Markets, Business Visualization, Cloud Computing, Statistical Methods, AI.

TECHNICAL SKILLS

- Programming Languages: Python, SQL, R, C, C++, MATLAB, PL-SQL
- Tools: Git, Tableau, PowerBI, Snowflake, Hadoop, Airflow, Spark, PyTorch, TensorFlow, scikit-learn, NumPy, Langchain, AWS.

RELEVANT EXPERIENCE

Logitix – Data Science Intern (Florida, US)

June 2023 – Present

- Trained a machine learning model to predict ticket tiers with 94% accuracy, securing lucrative partnerships with multiple prestigious sports venues and directly generating **\$100K in revenue**.
- Performed unsupervised machine learning on ticket sales data, implementing BIRCH and K-Means clustering algorithms to create 5 tiers. This streamlined categorization, enabled efficient analysis, and improved decision-making.
- Collaborated with strategy analyst team to validate and fine-tune clustering algorithms, bolstering model accuracy and reliability.
- Designed interactive dashboard for stakeholder model validation & communicated technical insights to non-technical audiences.

Persistent Systems – Data Science 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 pipeline to incorporate Deep Learning model for keyword extraction on text, post speech-to-text conversion.

AkzoNobel – Data Science Intern (Mumbai, IN)

Aug – Dec 2021

- **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 using Scikit-Learn.
- Simplified color recipe-generating process by building Machine Learning models to generate color recipes using solid colors.

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

April – July 2020

- 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 7 minutes** as validated through **A/B testing**.
- Conducted and facilitated knowledge transfer by hosting a tutoring session for 11 full-time staff members.

Sapio Analytics – Data Analyst Intern (Mumbai, IN)

April – June 2020

- **Maximized supply chain efficiency** of delivering Covid-19 vaccines by spearheading development of a collaborative dashboard using Tableau and Dash, leveraging AWS to extract key metrics. Presented it to the Andhra Pradesh government as a proposal.
- Analyzed historical data and market dynamics to predict need of essential supplies at hyper-granular level in India.
- Managed SQL database (over 40 tables with 100,000 rows) for COVID-19 Project, integrated by mobile and web applications.

SELECTED PROJECTS

Backtesting Financial Analysts' Future Predictions (Open AI, LangChain, OpenCV)

June 2023

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

Moving Target Interception using Multi-Agent Reinforcement Learning (MARL) (Python, Numpy, OpenCV)

May 2023

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

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

April 2023

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

Analyzing Optimal Video Game Playing Conditions (TensorFlow, Scikit-Learn, Scipy, statsmodels, LightGBM)

Jan 2023

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

Multi-Disease Detection using Retinal Fundus Images (PyTorch, TensorFlow, CNN, OpenCV)

Oct 2022

- Achieved 0.93 weighted F1 Score in identifying 45 diseases through training an ensemble Convolutional Neural Network.

Swachhdata - 50,000 downloads (Regex, Git, PyPi, NLTK, OpenCV, Gensim, NumPy, and Pandas)

Aug 2021

- Programmed 3,000+ lines to develop Swachhdata library, delivering modular preprocessing tools for data, text, and images.

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

Oct 2020

- Built an Airbnb clone leveraging Deep Learning for precise price and popularity predictions of real listings.
- Implemented state-of-the-art **text-generation** RNNs to analyze listings and provide hosts with tailored title recommendations.