KRITIK SETH

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EDUCATION

New York University, Center for Data Science — **New York, NY, US**
Master of Science in Data Science **(GPA 3.45/4.00)** — **May 2024**
- Coursework: Machine Learning, Big Data, Computational Cognitive Modelling, Probability & Statistics, Linear Algebra.

NMIMS University, Mukesh Patel School of Technology Management & Engineering — **Mumbai, India**
Bachelor of Technology in Data Science with *Distinction* **(GPA 3.88/4.00)** — **May 2022**
- Coursework: Statistical Methods 1 & 2, DSA, ML, DL, NLP, Computer Vision, Database Management Systems, etc.

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, C, C++, MATLAB.
- **Tools:** Git, Microsoft Excel, PowerBI, Tableau, Spark, Hadoop, Airflow, Docker, AWS (pursuing)
- **Libraries / Frameworks:** Pandas, Numpy, Scikit-Learn, TensorFlow, PyTorch, NLTK, OpenCV, SciPy, statsmodels.

PROFESSIONAL EXPERIENCE

Persistent Systems – Academic Intern (Data Science Team) — **Jan – Apr 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.
- Engineered pipeline to perform face-matching post-enhancement of government IDs and portrait photos using GANs.
- *Enhanced accuracy* by **15%** and expedited preprocessing with **40% increase** in **speed** to **3 seconds** by streamlining the pipeline to incorporate Deep Learning model for keyword extraction on text, post speech-to-text conversion.

AkzoNobel – Data Science Intern — **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.
- *Rationalized* relating colors and toners by analyzing large-scale color recipe datasets and performing ETL processes.

Kenmark ITan Solutions – Junior Data Science Associate — **Apr – Jul 2020**
- *Led* development of text-cleaning pipeline that *reduced* processing time by **40%** to **7 seconds** and *expedited* integration of data.
- *Improved F1 Score* by **30%** using recurrent neural networks for sentiment analysis on Bert embeddings of cleaned comments.
- Conducted and facilitated knowledge transfer by hosting a *tutoring session* for 11 full-time staff members.

Sapio Analytics – Data Analyst Intern — **Apr – Jun 2020**
- *Maximized supply chain efficiency* of delivering Covid-19 vaccines by *designing and publishing* a collaborative dashboard using Tableau and Dash, used 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 100,000 rows each) for COVID-19 Project, used by mobile and web applications.

SELECTED PROJECTS

Swachhdata - *50,000 downloads* (Regex, Git, PyPi, NLTK, OpenCV, Gensim, NumPy, and Pandas) — **Aug 2020 – Present**
- Developed Swachhdata (*open source* Python library) that provides simple & efficient data, text and image preprocessing tools.

Moving Target Interception using Multi-Agent Reinforcement Learning (MARL) (Python, Numpy, OpenCV) — **May 2023**
- Published a self made MARL framework in which the agents achieved co-ordination using *collaborative decision making* to catch a thief programmed with optimal evasion strategy.

Music Recommendation on ListenBrainz (Spark, Dask, Python, Hadoop) — **April 2023**
- Achieved the *highest* Mean Average Precision *(mAP) of 0.78* among NYU projects by developing and hyperparameter tuning a music recommendation system using Spark's ALS method and latent factor models.

Analyzing Optimal Video Game Playing Conditions (TensorFlow, Scikit-Learn, Scipy, statsmodels, LightGBM) — **Jan 2023**
- Collaborated in team of 4 to design & conduct a *statistical test* (Kolmogorov–Smirnov) to check if *Moore's Law* is still valid.
- Trained neural network to predict FPS *(RMSE 0.1025)*, built model to recommend optimal settings to play video games on.

Multi-Disease Detection using Retinal Fundus Images (PyTorch, TensorFlow, CNN, OpenCV) — **Oct 2022**
- Trained *ensemble* Convolutional Neural Network with *0.97 accuracy* to identify 45 diseases from collected images.

ACHIEVEMENTS

- Bajaj Finserv HackRx ML National Hackathon – *Second Place* out of 300 teams in India — **Jun 2021**
- Marsh McLennan Dremio Insights Competition – *Third Place* out of 150 teams in India — **Jan 2021**
- MateLabs Demand Forecasting Challenge – *First Place* out of 100 international participants — **Sept 2020**