NABEEL KHAN

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SUMMARY

Machine Learning Engineer with 3+ years of industry experience & seeking internship opportunities.

EDUCATION

Master of Science, Data Science, University at Buffalo, SUNY — **Sep 2021-Jan 2023**
Relevant course work: Statistical Data Mining, Data Model & Query Language, **GPA: 3.92**
Probability Theory, Predictive Analytics, Machine Learning, Reinforcement Learning.
Bachelor of Technology, IIT Roorkee, Indian Institute of Technology, Roorkee — **May 2013-May 2017**

SKILLS

○ **Languages :** Python, JavaScript, MATLAB, R, SAS
○ **ML Tools :** Classification, Regression, Clustering, Tree Based Algorithms, Bagging & Boosting.
  Libraries: TensorFlow, Keras, PyTorch, and scikit-learn.
○ **Deep Learning & NLP :** LSTM, Transformers, CNN, YOLO, Word2Vec, TF-IDF, Topic Modelling, spaCy, NER
○ **Data Management :** SQLite, MySQL, pandas, Numpy, Excel
○ **Tools & Data analysis :** Version Control (git), Tableu, Time Series Forecasting, Data Visualization, Machine Learning Interpretability

WORK EXPERIENCE

Associate Data Scientist, Merilytics, India — **Apr 2020-Aug 2021**
Built an Automated Valuation Model (**AVM**) using TensorFlow-based custom nearest-neighbor architecture to identify comparable properties for 4 major property types.
○ Delivered **~$25 million annual savings** by reducing ~2700 man hours weekly by automating property valuation.
○ Collaborated with client on biweekly calls to **deploy the AVM** in the client's environment by establishing an end-to-end data pipeline, & refactoring the code using PEP guidelines.

Developed a **Demand forecast model** with 1800 SKUs for a major European EV supplier
○ Leveraged Time Series forecasting packages such as fb-prophet, neural prophet, & seq2seq neural nets.
○ Reduced time taken for forecasting from 1 week to 4 hours with the automated pipeline.

Created a heuristic based driver **scheduling algorithm** to incorporate driving, terminal, & regulatory constraints.
○ Automated driver scheduling, reducing the time taken from multiple days to 15 minutes.
○ Produced a simulation of bills movement across 34 terminals for a long-haul trucking client.

Senior Data Science Analyst, Merilytics, India — **Feb 2019-Apr 2020**
○ Built Sales Forecast Model using Keras for creating promotion strategy for an American online clothing chain.
○ Developed an end-to-end data pipeline on Azure utilizing Azure functions to automate ETL.
○ Utilized KNN for determining comparable real estate properties, incorporating weights for different features.

Research Intern, Vidooly, India — **Dec 2018-Jan 2019**
○ Developed several Keras models for classifying YouTube Thumbnails and established data pipeline for extracting thumbnails using YouTube API.

Co-Founder & Content Creator, Synergy Learn, India — **Jan 2018-Sep 2018**
○ Animated & Produced lectures for YouTube & garnered 10,000 hours of watch time.
○ Managed company website, and social media to promote business.

Python Developer Internship, Modestreet, India — **Sep 2017 Dec 2017**
○ Created a web app using Django & Three.js to make 3D human models with specific dimensions, to be used as a virtual mannequin for an online clothing store.

PROJECTS

Reinforcement Learning Model : Designed environment using numpy to mimic AlphaGo for Ludo — **Ongoing**

Time Series Forecasting : Time Series Analysis, customer segmentation, and interactive dashboard for 100k orders from an e-commerce platform. — **Ongoing**

Resume Syncronization : Managed 6 profile versions on a single spreadsheet to keep changes in sync & avoid repetitive editing. — **Ongoing**
Utilized Python, HTML, & CSS for formatting & rendering, and Excel for handling data to create this version of my resume.

8 Ball Pool : Predicted & visualized ball trajectories using OpenCV, & made preemptive optimal decisions.