

Parth Kapadia

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EDUCATION

Masters in Applied Data Science

University of Southern California (USC), Viterbi School of Engineering

December 2023

Los Angeles, CA

Courses: Probability and Statistics, Machine Learning, Database Systems, Deep Learning, Fairness in AI, Data Mining

3.9/4.0 GPA

Bachelor of Engineering in Computer Engineering

Sarvajanik College of Engineering & Technology (SCET), Surat, Gujarat

May 2021

3.72/4.0 GPA

WORK EXPERIENCE

Capital One – New York, NY

Graduate Data Scientist Intern

June 2023-August 2023

- Enhance Alternative Data Stores Modelling Playbook by creating an efficient data pipeline utilizing Dask for parallel computing, supporting data ingestion from diverse sources including Snowflake, OneLake, and S3, resulting in a 1-day turnaround time, improving from previous week-long process.
- Conduct comprehensive feature selection using LightGBM's information gain, optimizing model efficiency and accuracy.
- Achieve a significant 1.75% AUC improvement over master model's scores by applying hyperparameter tuning on XGBoost, LightGBM, and CatBoost. Develop a streamlined model selection process - store optimized models as pickle files for future.

Information Sciences Institute USC – Los Angeles, CA

Research Assistant

May 2022-June 2023

- Implemented encampment detection algorithms with tracking and gain 85.78% accuracy in detection using DeepSORT.
- Collaborated on DARPA-funded project, DARMA, investigating content moderation's impact on fostering online discussion quality.
- Analyzed high vs. low moderated subreddits by examining defined 7 metrics (self-censorship rate, toxicity scores, etc.) and utilized before-and-after intervention effects on flow, toxicity, and engagement patterns in multi-turn dialogue models.

Wipro Limited - Bengaluru, India

Artificial Intelligence Intern

July 2021-October 2021

- Evaluated and refined five methodologies for monitoring and forecasting virtual machine (VM) parameters within Wipro iDeas – ERD's AIOps (**India's no. 1 research team by NASSCOM**) team including LSTM, Encoder-Decoder, Transformer, and self-attention models attaining notable average enhancement of 7.5% in prediction accuracy, amplifying system management.

Sailfin technologies Pt. Ltd – Remote (Santa Clara, CA)

Data Project Lead

June 2020-June 2021

- Headed a 7-member team to bring enhancements in a CRM software managing Account Receivables, **Smart Receivables Manager** (SRM) by employing Artificial Intelligence applications. (Product Website: [sailar.ai](#))
- Deployed 2 modules – **Forecasting Predictions** for predicting whether an invoice will be received in a specific period and **Entity Extraction** from PDF, Excel, and HTML Body if present in any incoming E-Mail.
- Orchestrated 2 modules – **Remittance Advisory** to automatize processing of remittance logbooks using Computer Vision and **Virtual Assistance** solving all basic queries of user-related to SRM.

Data Engineer and Intern

June 2019-June 2020

- Built and integrated 2 virtual chat assistants to automatize process of solving various queries of users, implemented an E-mail Classification Algorithm of high accuracy of 92.68%.

ACADEMIC PROJECTS

Activity Recognition System

Graduate 1st Sem

- Analyzed and compared five distinct machine learning classification models using advanced feature engineering and extraction techniques to accurately classify 6 common day-to-day human activities.

Froken

Undergraduate Senior Year

- Devised machine learning-based monitoring system, securing accuracy of 93.28% to deter spread of hate speech on sensitive topics for SSIP granted startup initiative creating a secure social media platform, enabling anonymous blogging.

PUBLICATIONS

- Author: "A Novel Approach on forecasting Account Receivables", ICT4SD, Springer, 2021 - doi.org/10.1007/978-981-16-5987-4_79
- Co-author: "Autonomous Inpainting Algorithm for Wire Removal from Image", IEEE, 2021 - doi: 10.1109/ESCI50559.2021.9396816

SKILLS

- Programming Languages and Frameworks:** Python, Advanced C/C++, C#, Java, JavaScript, SQL, HTML, CSS, Apex, Dask, PySpark
- Databases:** Firebase, MySQL, Postgres, MongoDB
- Platforms and Tools:** Salesforce, Git/GitHub, Azure, TensorFlow, IoT, Arduino, AWS, Salesforce, PyTorch, Tableau, Power BI
- Certification:** Basics of Python, Python Data Structures, Azure Fundamentals