SARANG PATIL (he/him)

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EDUCATION:

University of Maryland Baltimore County, Baltimore, MD

Jan 2021 - Dec 2022

M.P.S. in Data Science, *GPA* – 3.95/4.0

Pune University, Pune, India

Jun 2016 - May 2020

Bachelor of Computer Engineering, GPA - 3.7/4.0

SKILLS:

- Python, Java, C, C++
- Machine Learning and Deep Learning Algorithms
- Data Science and Natural Language Processing Libraries
- MySQL, MongoDB
- Spark
- Hadoop
- Tableau

EXPERIENCE:

Research Assistant, University of Maryland Baltimore County, Baltimore, MD

Jan 2022 - Present

- Develop a research project on intrusion detection system using Deep Learning algorithms
- Resolved issues in data having imbalance of 80-20% by considering parameters like AUC and techniques like sampling
- Improve the results by experimenting with different parameters in the algorithms

Machine Learning Project Intern, CoReCo Technologies, Pune, India

Aug 2019 - Jun 2020

- Initiated a project implementing the Naïve Bayes model for detecting inappropriate tweets (Twitter API) having a prediction accuracy of 76% and precision of 89%
- Demonstrated the impact of different algorithms on data in more business terms and less technical jargon by mediating between project team and management team
- Illustrated analytical data and graphs of sentiments on Twitter about a specific word or in general

Project Intern, Aalborg University, Copenhagen, Denmark

Jan 2018 - Feb 2018

- Managed a project team at Aalborg University regarding Steam Game Distribution Platform
- Spearheaded Technical Analysis and Business Analysis of the project and designed innovation system architecture to satisfy the requirements of 47% of steam video game customers

PROJECTS:

Indoor Semantic Localization using IoT and Data Science

Dec 2021 - Present

- Facilitate semantic localization of the user at home solely with the help of non-intrusive sensors
- Generated a Indoor Localization system that decreases the hardware costs by 50-60% approximately using non-intrusive sensors rather than the usual smart-home sensors
- Analyze the energy/water/gas consumption data to predict the user's location at home

Stock Market Prediction using the correlation between Twitter and Stock values

Jun 2021 - Dec 2021

- Collaborated with a team of 4 to predict future stock values of different companies based on Twitter data and previous stock market patterns
- Introduced company-specific stock values with Twitter data based on a date along with and without time-lag inferring a confidence level of 95% in the correlation among Twitter data and stock market data

Weather Forecasting and Weather Data Analysis using ML Algorithms

Feb 2020 - Apr 2020

- Teamed with 3 students to design a project that predicts weather parameters such as temperature using historical data of temperature, humidity, and precipitation with
- Analyzed Weather Data incorporating Time-series supervised learning which implemented LSTM and RFR with the mean absolute error being as little as 3.08 °F and 3.7 °F respectively

PUBLICATIONS:

• "An Effective Analysis on Anti Troll System using Artificial Intelligence", International Research Journal of Engineering and Technology (IRJET), Volume: 09, Issue: 12, Dec 2019

https://www.irjet.net/archives/V6/i12/IRJET-V6I12103.pdf