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Amruta Gajanan Bhat

Data Scientist

github.com/amrutabhat
kaggle.com/amrubhat
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public.tableau.com/amrutabhat

SKILLS

BI & Data Science Tools	Spotfire, Tableau, MATLAB, Power BI, Dataiku DSS
Database Systems	Snowflake, Oracle SQL, MS SQL, Hive/Impala, PostgreSQL, Redshift
Programming Languages	Python, R and Shell script
Python Packages	pandas, numpy, openCV, keras, tensorflow, pytorch, sklearn, nltk, transformers, huggingface

EDUCATION

Masters of Science in Data Science Jan 2023 - May 2024
State University of New York Buffalo, NY

- **Graduate Assistant** under School of Engineering and Applied Sciences from Sep'23 - Dec'23.
- **Coursework:** Numerical Mathematics, Probability Theory, Statistical Learning and Data Mining, Machine Learning, Data Models and Query Language, Computer Vision and Image Processing, Deep Learning, and Data Structures and Algorithms.
- **Projects:** Developed regression models to predict NBA Players Salaries using basic Regression models and used Regularization techniques, PCA to select best features.
- Developed a Computer vision project to track high-speed object (ball) in sports (Tennis) using YOLO.
- Performed extensive uni-variate and multi-variate analysis, employed different imputation techniques and developed different variations of Holt-Winters model to forecast [daily oil prices](#).

Bachelors of Engineering in Information Science Aug 2014 - May 2018
PES University Bangalore, KA

- Developed a **cluster and community detection algorithm** using Python that performed as good as K-means clustering.

WORK EXPERIENCE

Research Assistant Jan 2024 — Present
University at Buffalo Buffalo, NY

- Working on regressing the biological age using bio-markers taken from NHANES data from 2011-2019.
- Enabled quantile-normalisation and order-quantile normalisation techniques to normalise discrete and continuous fields
- Used XGBoost to perform regression and working on improving the performance by using different techniques - feature selection, feature extraction and feature importance.

Research Project Assistant Sep 2023 — Present
SUNY Research Foundation (Dental Lab) Buffalo, NY

- Assist in R, Python, Shell scripts for Bio-informatics.
- Created pipelines using snake-make and shell scripts to download bacterial genomes from HOMD, genomad to predict viral and plasmid gene sequences and pharokka to annotate the predicted genes.

Data Scientist Jun 2021 — Dec 2022
MResult Services Bangalore, KA

- Modeled **K-means clustering** algorithm to cluster customers based on transactions for a Bank.
- Fine tuned **RoBERTa model** and **SapBERT model** from **HuggingFace** to classify medical product reviews into 6 different categories and document summarization.
- Achieved higher accuracy using hyper parameter tuning like **Grid Search CV** and **Randomized CV**.
- Fabricated **Principal Component Analysis** for feature engineering.
- Applied Boosting techniques like **XGBoost**, **Light GBM** and **expandable boosting** to improve the accuracy.
- Imported data from multiple sources, like **Redshift**, **Sharepoint** and **MySQL**, and modeled data within Spotfire for analysis.
- Created several out-of-the-box solutions like **exporting to PPT** on demand, writing data back to Sharepoint, reading data from Sharepoint, **CRUD operations on Excel files** and more. Awarded **Pat on Back** and **Bravo** awards.
- Assisted junior analysts, guided new joiners, interviewed candidates and lead over three projects.

Data Analyst Aug 2018 — Jun 2021
IQVIA Bangalore, KA

- Gathered and built data models from wide range of Databases like **Oracle**, **Hive**, **SQL Server** and **PostgreSQL**.
- Used different optimization techniques to improve the performance of the SQL queries.
- Developed and managed dashboards using **Spotfire**, **Power BI** and **Tableau**.
- Extensively used **Iron-Python** and **R** scripts to customize the Spotfire reports to fulfill clients' needs.
- Embedded Spotfire Dashboards within Java, Sharepoint and Node JS applications using **iFrames**.
- Automated several workflows within the organization like **controlling visual parameters**, **caching** to reduce the load time, **sending out emails to employees**, exporting reports to Excel and more. Received **Silver** and **Bronze Recognition** for the same.

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ACTIVITIES

- Completed various courses on Machine Learning, Deep Learning, Spark, Forecasting, Artificial Neural Network, Natural Language Processing, Computer Vision, AWS, Statistics and Snowflake from platforms like Udemy, Coursera, Data Camp and more.
- **Certified Tibco Spotfire Professional.** 2021-2023
- Participated in over 10 Hackathons organized by the employers, **Kaggle, Machine Hack, Data Hack** and more. 2018 - 2022
- Attended **AWS Summit India 2022** and **Everyday AI India** Conference hosted by **Dataiku.** May 2022 & July 2022
- Developed and published an **open source package to pypi** to remotely monitor models in training. July 2022
- Made it to **top 50** in the Hackathon organised by Data Hack Jun 2022.
- **Top 5** in Hackathon organised by IQVIA Sep 2018
- Awarded **Best Outgoing Student of the year.** 2018