AVICHAL SHARMA

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EDUCATION

NARSEE MONJEE INSTITUTE OF MANAGEMENT STUDIES *Mumbai*
Bachelor of Technology – Computer Science (Data Science) **Expected May 2024**
CGPA: *3.5/4.0*

DELHI PUBLIC SCHOOL *Navi Mumbai*
Grade 10th: *96.4%* | Grade 12th: *95.2%* **2010 - 2021**

WORK EXPERIENCE

QUANTUM SOFTWARE SOLUTIONS PVT. LTD. *Mumbai*
Data Science Intern **May 2023 – July 2023**
- Prepared Python scripts for automating time consuming tasks including EDA, Data Processing, Visualization, NLP and Machine Learning (90%+ accuracy), enhancing efficiency for telecom giants Vodafone, Idea, and VIL.
- Processed complex datasets for management of telecom metrics in 90,000+ nationwide sites as well as textual and statistical analysis of KPIs, languages and sentiments in 6.5Lac+ customer surveys, using Python and Excel.
- Created and presented 15+ Tableau dashboards and Python visualizations, delivering industry-level insights.

THE SPARKS FOUNDATION *Remote*
Data Science & Business Analytics Intern **May 2023 – June 2023**
- Leveraged decision trees and regression analysis to build predictive Machine Learning models.
- Helped guide 10+ interns, fostering a collaborative and knowledge-sharing environment.

INTERNSELITE *Remote*
Data Science & Business Analytics Apprenticeship **Mar 2023 – May 2023**
- Speech-Emotion Classifier: Implemented a deep learning model employing Audio Techniques for feature extraction & Multilayer Perceptron, with the help of Keras and TensorFlow, to classify speech signals into emotions attaining 75% accuracy. Deployed the model on a user-friendly Streamlit dashboard.
- Email Spam Filtering: Developed a classification system based on Multinomial Naive Bayes that pre-processes an adaptive dataset of spam/ham emails utilizing NLP and trains a logistic regression model acquiring 98% accuracy.

PROJECTS

END-TO-END SCORE PREDICTION SYSTEM | *Flask, Regression, HTML, CSS, AWS Elastic Beanstalk, Git* **June 2023**
- Developed Machine Learning models for the prediction of a test score based on 7 decision variable inputs.
- Designed an intuitive Web Application for login, form input and results; deployed using AWS Elastic Beanstalk.

CUSTOMER PERSONALITY ANALYSIS | *Excel: Dashboard, Data processing, Macros, VBA, ActiveX controls* **Apr 2023**
- Generated a collection of 3 strategic dashboards to analyze correlations and patterns in over 2000 customers' behaviors and personality, over 25+ data points to help strategize for higher sales output.
- Added VBA user forms and command buttons for customer registration with a separate login portal for security.

MOVIE RECOMMENDATION | *Python: SVD, k-means Clustering, Vectorization, Bayesian Stats, EDA* **Mar 2023**
- Streamlined a recommendation system based on the cosine similarity between genres watched by similar users.
- Used filtering techniques: collaborative (using matrix factorization) and content-based (using TF-IDF vectors).

END-TO-END JOB APPLICATION SYSTEM | *Flask, HTML, CSS, MySQL, Git, Replit, Render* **Mar 2023**
- Developed and deployed an intuitive website for displaying and replying to job postings through various channels.
- Maintained data using MySQL Workbench: adding, deleting, updating job postings and incoming responses.

TRANSPORTATION SOLUTION | *Python, SAS Viya, Excel: Simplex algorithm - PuLP, Dashboard, EDA* **Nov 2022**
- Engineered a program to evaluate the optimal solution for minimum transportation costing based on 2 decision variables employing analytics and modeling, along with an interactive dashboard to visualize the dependencies.

TECHNICAL SKILLS

Programming: *Proficient in* Python, C, C++, VBA; *Familiar with* SQL, R
Machine Learning Packages: NumPy, Pandas, TensorFlow, Keras, Scikit-learn, NLTK, PuLP, SciPy, XGBoost, CatBoost
Web Technologies: HTML, CSS, Flask
Visualization Technologies: Matplotlib, Seaborn, MS Excel, SAS Viya, Tableau, AutoCAD

SOCIAL WORK

LET'S CELEBRATE FITNESS NGO *Navi Mumbai*

Community Service **June 2022 – July 2022**
- Orchestrated a team of 15 students to supervise and execute social activities, such as seminars, surveys, ground assessment as well as collection and distribution drives, for a fitness-based NGO throughout the city.
- Collaborated with the city's Municipal Corporation to direct plastic awareness campaigns in 3+ market areas.

FILO – LIVE TUTORING APP *Remote*

Teacher | Part-time **Aug 2021**
- Cleared doubts and queries regarding mathematics, physics, and counselling for JEE-NEET aspirants.

ADDITIONAL

Other Skills: Presentation, Content Creation & Editing, Event Management, Marketing, Corporate networking
Languages: *Proficient in:* English, Hindi; *Familiar with:* French
Extra-Curricular: Students' Council Captain, National level Football & Skating, College Dance Team Head, Photography
Skill Assessment: *LinkedIn:* Machine Learning, Python, Microsoft Excel; *Triplebyte:* Machine Learning (Industry Proficiency)

ACHIEVEMENTS

- Cracked **Pre-Regional Mathematics Olympiad** in Mumbai, at age 13
- **Semi-finalist at Code Wars** hackathon by the Google Club in 2022
- **Under 500 rank world-wide** in the DPS Society's Science and Math Talent Examination in 2017
- Qualified and awarded at numerous Olympiads like **Silverzone Science and Mathematics International Olympiads, Homi Bhabha National Competition, Australian National Chemistry Quiz** etc.