Milana Malvadkar

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----------PROFFESIONAL SUMMERY----------

- **5+ years** of experience in the field of **Research & Development.**
- Involved in **Data cleaning, Data Mapping, and Data Preprocessing** techniques for making the data useful for ML Models.
- Experience of Exploratory **Data Analysis (EDA), Data visualization and Machine Learning Model Building.**
- Good Understanding of **Machine Learning Algorithms**.
- Good experience of packages like **Numpy, Pandas, sklearn, Matplotlib and Seaborn.**
- Good Understanding of web application development and deployment.
- Hands on experience on Linux OS.

----------KEY SKILLS----------

• Machine Learning • Data Analytics • Exploratory Data Analysis
• Predictive Analysis • Statistical Modeling • Measurement of Uncertainty • Data Visualization

----------WORK HISTORY----------

Data Science Intern, 2021 to till date

Thyroid Detection on medical data, Bharat Soft Solutions – Pune, Maharashtra

- Research Topic is **'Classification methodology to predict the type of Thyroid based on the given data using Data Science and Machine learning'**
- To lead the team of researcher to carry experiment related out to project.
- Build models using Clustering – K-Means algorithm and random forest method.
- Prediction - Based on the cluster number, load the respective model and is use it to predict the data for that cluster.
- Once the prediction is made for all the clusters, the predictions along with the original names before label encoder is saved in a CSV file at a given location and the location is returned to the client.
- Best model is selected using AUC score for each cluster.
- The algorithms are used: Random Forest, and Classification.
- Deployment: on Heroku platform.

Data Analyst, January 2016 to May 2020

Wafer fault Detection, PES Modern College of Engineering – Pune, Maharashtra

- Work involved was to detect the quality of Semiconductor material. The client used to send data in multiple sets of files in batches. Data contains two classes of Wafer and "n" columns of different values. Apart from training files, 'schema' file is taken from the client, which contains all the relevant information about the training files.
- Done data Validation: If required columns and data is present push into Good data folder and if not then into Bad data folder.
- Data Insertion: According to Good or Bad data folder only good data is pushed into SQLite Database.
- Process Followed:
  - Clustering – K-Means model created during training is loaded, and clusters for the pre-processed prediction Data is predicted.
  - Prediction - Based on the cluster number, the respective model is loaded and is used to predict the data for that cluster.
  - Once the prediction is made for all the clusters, the predictions along with the original names before label encoder is saved in a CSV file at a given location and the location is returned to the client. Model Selection - Best model is selected using AUC score for each cluster.
  - The algorithms are used: XGBoost, Random Forest, and Kmeans.
- Deployment on Heroku platform

Key Responsibilities:

- Performed common machine learning algorithms like Regression, Classification and Ensemble models, KNN, K-means, Random Forest, Decision Tree algorithm.
- Implemented Data Exploration to analyse patterns and to select features using Python Matplotlib and Seaborn package.
- Data cleaning by using some imputation methods also categorical data handling using Label Encoder Package.

Assistant Professor, AIT Chikmagalur January 2010 to April 2015

Key Responsibilities:

- Subjects Taught – Database Management System, C Programming, Design & Analysis of Algorithms, Web Programming,
- Practical Sessions Conducted for the subjects- Lab on Data Based Management Systems, MongoDB, PL/SQL, Algorithms, Computer Network, C Programming, Web Programming, Python

----------TECHNICAL SKILLS----------

- **Database**: SQL, MySQL, MongoDB
- **Packages:** Scikit-Learn, NumPy, SciPy, Pandas, Beautiful Soup, Matplotlib, Seaborn.
- **Machine Learning:** Statistical Analysis,nLinear/Logistic Regression, Clustering, Dimensionality Reduction, Ensemble Methods, Regularizations, classification etc
- **Platforms and Misc:** Anaconda, Jupyter Notebook, PyCharm.
- **Web Development:** HTML (Basic), CSS (Basic)
- **Languages:** Python, C++, C.

----------TRAININGS AND CERTIFICATIONS----------

- **Data Science Master Certification** from Bharat Soft solutions, Pune.
- **Data Science with Python from Simplilearn** in association with **IBM.**
- QIP on**" Tools for Cyber Security: A Laboratory Course**" sponsored by **IIT Bombay.**
- **Attended workshop on "Developing Web Applications using JSP, Servlet, AJAX, AngularJS and Modern Frameworks"** organized by **PICT, Pune**.
- Attended state level workshop on "**Internet of Things (IOT), Analytics, Computer Techniques and Tools for Smart Cities**" organized by **Cummins College of Engineering for Women, Pune.**

----------PUBLICATIONS AND RESEARCH WORK----------

- "A Survey on the Principles of mining Clinical Datasets by utilizing Data Mining Techniques" International Journal of Innovative Research in Computer and Computer Engineering. e-ISSN: 2320-9801, p-ISSN: 2320-9798.
- "Wireless Communication Locker with Advanced Security System using GSM, RFID and OTP Technology" International Journal of Innovative Research in Computer and Computer Engineering. e-ISSN: 2320-9801, p-ISSN: 2320-9798.
- "Detecting Selfish nodes in MANET'S using Network Simulator NS2" Convergence in Operational and Computational Technology- COCT 2015.
- "Random Password Generator in VANET Environment for a secured Trust Creation", National Conference on Information Technology for Sustainable Future - NCITSF.
- "Design and Implementation of Ranking Model Adaptation for Domain Specific Search" National Conference on Recent Advances in Science, Engineering and Technology of Computer Engineering, NCRASET 2014.

----------EDUCATION----------

Master of Technology: Computer Engineering, 2015

MCOE, Hassan, Karnataka

- Percentage: 82%

Bachelor of Engineering: Information Technology, 2010

Atria College of Engineering, Bengaluru, Karnataka

- Percentage: 70 %

----------OTHER PROJECTS----------

Other Machine Learning Projects

1. Restaurant Setup Prediction using Data analysis and Visualization
2. Product reviews on E-Commerce site using web scrapping.
3. Salary Prediction Using Machine Learning Model.

PERSONAL DOSSIER

Date of Birth: 27th December 1988
Sex: Female
Marital Status: Married

I hereby declare that all information given above is correct to the best of my knowledge and belief.

Date:_____
Place: _____

Milana Malvadkar