

# VAIBHAV PADAVAL

## ML Engineer

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### CAREER OBJECTIVE:

Seeking a position of Data Scientist to put of knowledge into use to help the business meet strategic and operational goals by identifying opportunities to deploy new technology in data science. Possess, expertise in Python & Data Analytics, ML modelling, and proven ability to manage complex tasks.

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### PROFILE SUMMARY:

- 2.9 years of hands-on experience in building scalable Machine Learning based solutions in Big Data environment.
  - Experience in building ML Pipelines and identifying right ML architecture.
  - Exposure on Linux and Windows.
  - Through understanding of Probability and Statistics, Bayesian methods.
  - Strong Coding Skills.
  - Knowledge of Python's Data Analysis and Machine Libraries.
  - Data Mining Algorithm experience in the family of predictive algorithms (Regression, KNN, Decision Trees) and clustering algorithms (K-means clustering).
  - Source code management and version control system using Git and GitHub.
  - Basics of text processing using NLTK library.
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### WORK EXPERIENCE:

**Organization : RENO PLAS PVT LTD, Hyderabad**

**Duration : Aug 2020 – Till Date**

**Designation : ML Engineer**

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### SPECIALIZED ABILITIES:

- **Python Packages** – NumPy, Pandas, Sci-Py, Scikit-Learn, Seaborn, Matplotlib, Flask.
  - **Machine Learning** – Linear Regression, Ridge & Lasso Regression, Logistic Regression, Naïve Bayes Classifier, KNN Regression & Classification, Support Vector Machine (SVM), Decision Tree, Random Forest, Gradient Descent, Ada-Boost, K-means Clustering.
  - **Deep Learning** – ANN, CNN, Activation & Loss function, Linear Algebra, Optimizers, TensorFlow 2.x
  - **NLP** – Text Understand, Representation & Classification technique, Text Clustering skills NLTK, TF-IDF, word2vec, BOW, doc2vec, keyphrase extraction.
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### SUPPORTING TECHNOLOGIES:

- **Languages** – Python, SQL
- **Cloud Platforms/Services** – AWS (EC2, S3, Sagemaker)
- **Web Stack** – Flask
- **Operating Systems** – Linux, Windows
- **Databases** – MySQL, MongoDB
- **Front End** - Basic HTML & CS

## EXPERTIES:

- Data Visualization
- Predictive analysis
- Statistical Modeling
- Web scrapping
- Data preprocessing
- Clustering & Classification
- Model Development and Deployment
- Machine Learning and Deep Learning Algorithm

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## PROJECTS:

- **Title** : **Business Lending Solutions. (Finance Domain)**  
**Objective** : A credit card issuer wants to better predict the likelihood of default for its customers, as well as identify the key drivers that determine this likelihood. This would inform the issuer's decision on who to give a credit card to and what credit limit to provide.  
**Responsibilities** : Data collection, Analysis and interpretation of large dataset, Exploratory Data Analysis on the data, built a sustainable model to solve the business case and deployed the project successfully.  
**Tools Used** : Python libraries like Pandas, NumPy, Scikit, Matplotlib, Seaborn. ML Techniques like Logistic Regression, KNN Classifier, Decision Tree, Random Forest (Ensemble Methods) algorithms, AWS (EC2).
- **Title** : **Document Classification System**  
**Objective** : Document Classification can help an organization to meet legal and regulatory requirements for retrieving specific information in a set timeframe.  
**Responsibilities** : Design, develop and implement analytic solutions using a variety of commercial and open-source tools. Develop and embed automated processes for predictive model validation and implementation.  
**Tools Used** : K-Nearest Neighbors, Support Vector Machine, Naive Bayes Classifiers are used to classify the documents.

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## EDUCATION:

- **Bachelor of Engineering (2020)** from **Shivaji University, Kolhapur** with **73.50%**.
- **Diploma in Engineering (2015)** from **M.S.B.T.E Mumbai** with **63.40%**.
- **S.S.C. (2012)** from **M.S.B.S.H.S. Pune** with **80.36%**.

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## PERSONAL DOSSIER:

- **Date of Birth** : July 17, 1996
- **Languages** : English, Hindi, Marathi
- **Hobbies** : Swimming, Playing Cricket, Social Service