Prashant Mininath Mane
ME CSE
Data Scientist

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Summary:

Passionate Data Scientist with 3.4 years of progressive experience in practicing and indoctrination. an enthusiastic engineer and thriving analyst with the ability to apply ML techniques and algorithm development to solve real world industry problems.

Technical Skills:

- Programming Languages: Python, Java, C++
- Machine Learning: Supervised and Unsupervised
- Other ML Skills: ML Model Tuning, PrincipalComponent Analysis, Machine Learning Pipeline
- IDE: Jupyter, Pycharm, Spyder
- Neural Networks: Artificial neural Networks(ANN), Convolution Neural Networks(CNN), Multilayer Perceptron Model, Recurrent Neural Network
- OS: Windows, Linux
- Data Science Libraries: Numpy, Pandas, Matplotlib, Seaborn, Sklearn/Scikit-learn
- Web Framework: DJANGO, Flask (REST API)
- Cloud Deployment : GCP(Novice), Heroku
- Web Scraping: BeautifulSoup4
- Analytic Tool: Tableau
- Deep Learning Framework: Tensorflow and Keras

Key Skills:

- Data visualization
- Statistics and Analytics: Descriptive Analytics, Predictive Analytics
- Statistical modeling
- Training and mentoring
- Clustering and classification
- Data Analytics
- Quantitative Analysis
- Web scraping
- ML Algorithms
- Model development

Professional Qualification:

- Data Scientist in Omvsab IT solutions**, Pune** Nov 2017 – Till Date

Projects Details:

1. Time log generator for Effort analysis and project tracking

Client: Cardinal Homes, India

Cardinal Homes covers an extensive range of the most attractive real estate sectors where comany provides strategic advice to our clients at all stages of the acquisition process from sourcing and identification, valuation through to negotiation, and due diligence.

Objective of this project to measure the efforts spends by team peoples on each task every day.

Responsibilities:

- Generate the time sheet for every individual resource
- Generate the time sheets for all team peoples.
- Update the total efforts spend on task in JIRA field
- Add activity log in JIRA description to update efforts spend by team peoples on each task every day.

Description: Time log generator is a python tool used to measure the efforts spends by team peoples. This tool is mainly used for project management activities. It helps to manage the project task estimation, calculate the time spend on billable (project task, Project meeting, project training) and non-billable (Organization training, organization meeting) activities, measure team holding, keep the record of hours spend on project.

Tools Used: PyScripter, JIRA, Python, Python Element Tree, OpenPyXI,

2. Customer churn prediction for Telecom industry

Client: **TPG Telecom limited, Australia**

TPG Telecom limited, an Australian telecommunications and IT company. TPG is headquartered in NSW, Australia and specializes in business and consumer internet services and mobile telephone services as well. Attributes of TPG's success are its people, products, innovation and network assets which enabled them in providing customers with services that are reliable, fast and cost effective.

Objective of this project was to build predictive model to identify customers at high risk of churn and identify the main indicators of churn.

Roles and Responsibility:

- Liaise with stakeholders to analyze business problems, clarify requirements and define the scope of the resolution needed
- Analyze large, complex datasets to extract insights and decide on the appropriate technique
- Perform exploratory data analysis to understand the problem
- Designing and developing machine learning and deep learning systems
- Implement and experiment with different features and architectures for Deep-Learning models
- Running machine learning tests and experiments
- Perform statistical analysis, fine tuning test results, train and retrain systems
- Detecting the customers at risk of churn.
- Communicate and explain complex processes to people who are not programming experts
- Research and implement best practices to improve the existing machine learning infrastructure

Tools Used: Python, Pandas, Data Science, Machine Learning, Deep Learning, Random Forest Classifier, Multilayer perceptron model, GridSearchCV, matplotlib and seaborn.

3. Detection of cracks on masonry surfaces

Client: Pamposh Group, India

Pamposh Group has carved a niche for itself in the construction business by successfully executing the Civil Construction works on Manpower Deployment Basis and Unit Rate Basis. Pamposh Group is a Multinational Construction Company, has been associated with construction of Federal Projects, traditional Structures, Institutional Buildings, Commercial Centers and VRD/External Development.

Objective of this project was to detecting cracks on photos of structures by training our machines Using Deep learning.

Roles and Responsibility:

- Developed and tested image processing and data classification algorithms for defect management
- Analyzed the data and develop methods using machine learning/deep learning for feature extraction and classification
- Developing and executing imaging programs that are utilized to detect all kinds of cracks on different types of surfaces.
- Visualized and communicated results to the team members for better enhancement
- Created visual interpretations of data and methods, written reports, and created presentations
- Designing, enhancing, experimenting and perfecting the adjustment targets
- Carrying out various experiments and tests and revaluating internal representation algorithm rules, formulas and programs for technical and special procedures and methods
- Investigating quality and standard metrics in order to study and examine the operative functions and suggesting changes to the metrics in order to enhance the same
- Giving specialized and technological suggestions in order to supervise and direct the algorithm operative functions of the creators and developers
- Creating and enhancing various study instruments and executing internal representation standardized operations
- Experimenting imaging systems and keeping an eye on the functioning processors
- Creating, enhancing and codifying particular software programs and backing-up the creation and enhancement of commodities

Tools used: Python, Data Science, Machine Learning, Deep Learning, Convolution Neural Network (CNN), HDF5, Pandas, Matplotlib and Seaborn

Courses and certifications:

- Coursera (OnlineCourse): Applied Machine Learning in Python.
- Coursera (OnlineCourse): Introduction to Data Science in Python.
- Coursera (OnlineCourse): Understanding and Visualizing Data with Python.
- Coursera (Online Course): Natural Language Processing in TensorFlow
- Coursera (Online Course): Neural Networks and Deep Learning

Global Competitions:

- Kaggle - Advanced Regression Techniques - House Price Prediction
- Kaggle - Titanic Survival Rate
- Kaggle –Twitter Sentiment Analysis