Ved Prakash Dwivedi

Senior Consultant, Deloitte USI
Hyderabad, India

Email: dwivedi.vedp@outlook.com
Ph No: +919000298554

Professional Summary

IT professional with a **valid US H1B visa** and 8.5 years of experience in leading & delivering **Analytics based solution** for **Business Transformation** of Financial sector (Insurance). Experienced in developing & deploying production-ready Machine learning and Deep learning algorithms using Python. Strong knowledge of SQL programming, MS – Excel and Tableau.

Competencies: Python, SQL, MS-Excel (Advanced Excel), R, Tableau, ML algorithms (such as Linear & Logistic Regression, Decision Trees, KNN, SVM, Ensemble Techniques, Neural Networks), Dataiku DSS , Project Management, Jira, Agile, Data Mining, Data Visualization, Stakeholder Management

Education Details

PGP in Data Science, INSOFE— 2019 — Hyderabad, India

B. Tech- EEE, National Institute of Technology (NIT) Jamshedpur — 2008 to 2012 — Jamshedpur, India

Dataiku DSS – Core Designer certification- to build enterprise level Machine Learning based solutions

Publications

Estimation of Global and Diffuse Solar Radiation for Jamshedpur, Jharkhand, India (IJSAT, 2012)

Professional Experience

Senior Consultant, Deloitte USI– Sep'18 till Today, Hyderabad, India

Claims Score predictor (Underwriting risk assessment) | Tech stack: Python, sklearn| Metrics: RMSE

- Led a team of 4 members to analyze the data and build probable solutions to predict claim score for a new customer based on customer's available information
- Involved in building data pipeline, regression based statistical and Deep learning models -using TensorFlow and Keras
- Deployed the model and integrated it with inhouse insurance product suite for better risk assessment

Smart IT ticket classifier (Insurance): NLP based tickets classifier | Tech stack: Python, sklearn, ServiceNow| Metrics: Accuracy

- Led a team of 6 members to build NLP based model for categorizing new IT tickets by following project management lifecycle processes. This helped in saving 90-man hours efforts monthly.
- After completing above categorization, created a team of 16 people to validate business processes around the incidents

Hedge Fund (Finance): Predicting Alpha signal using microblogging data| Tech stack: Python, sklearn, TensorFlow, Keras| Metrics: F1 Score

- Alpha signal of a Hedge Fund is used to make purchase decisions about the stock using sentiment analysis.
- Implemented Deep Learning techniques like RNN, LSTM to predict the sentiment score based on the tweets
- Utilized sentiment score as a new feature to implement multi class classification for Alpha value.
- Machine Learning approaches used: Naïve Bayes, Logistic Regression, Decision Tree, K Nearest Neighbors (KNN), Support Vector Machines, Ensemble techniques (Random Forest, XGboost) and Deep learning techniques

Consultant, Deloitte USI – Sep'15 to Aug'18, Hyderabad, India

Production Incident Analyzer (Excel, SQL, Tableau)

- Led a team of 4 people to analyze production incident data to evaluate the impacted business critical functionalities
- Developed Business Intelligence reports to showcase the historical trends across data using Tableau dashboards and MS- Excel charts, resulting in 50% reduction in incidents across releases.
- As a next step, formed a team of 8 people to build business process validation suite to be used across new version upgrades based on outcome of production incident analysis
- Received outstanding award for successful delivery of the project for reducing the incidents by a huge margin.

Analyst, Deloitte USI – Jan'13 to Aug'15, Hyderabad, India

Core system transformation for an insurance client (Excel, Tableau)

- Conducted requirement gathering sessions/ workshops with business user
- Understood business processes, current business challenges and future vision
- Documented functional requirement in form of Acceptance Criteria document and built capability matrix showcasing common functionalities across different states of US

Other Data Science Projects

- Customer Churn Analysis-Predicts customer churn for a banking client; Validation Metrics: Recall Score of 0.90
- Taxi Fare Prediction- Predicts taxi fare based on the distance travelled; Validation Metrics: RMSE Score of 1.5
- Pneumonia Prediction – Predicted if a patient is affected with Pneumonia based on chest XRay; Validation Metrics: Accuracy Score of 0.80

Methodologies: Naive Bayes, Linear Regression, Logistic Regression, K Nearest Neighbors Regressor, Support Vector Machines, Decision Tree, Random Forest, XGBoost, Deep Neural Networks, Natural Language Processing, Image Processing, Convolution Neural Nets, Transfer Learning, etc.