Ved Prakash Dwivedi

Senior Consultant

Address Hyderabad, TELANGANA, 500084
Phone 919000298554
E-mail vedpdwivedi01@gmail.com

- **7** years of Insurance **Business Transformation** experience at Financial level providing **Analysis & Intelligence** based solutions
- Equipped with cutting edge **Machine Learning & Deep Learning** Technologies
- Capable of leveraging Business Cycle understanding plus Technology Intervention to provide Large scale & Industry compliant solutions
- Hands on experience on programming tools like Python.
- Good knowledge of SQL Programming, Tableau and MS- Excel.

Certifications

Jul 2019 - Post Graduate Program in Data Science

Work History

Sep 2017 - Current

Senior Consultant

Deloitte Consulting US India Pvt. Ltd., Hyderabad
Industry : Financial Services (Insurance)
Roles : Data and Business Analysis Team Lead

Key Responsibilities:

- Design technical solution roadmap to deal with noise in Insurance data
- Build an optimisation solution to allocate tasks efficiently, which resulted in saving rework effort of the team
- Lead a team of 16 people for business process validation of the insurance-based application for one of the leading insurance clients.
- Mentored team of 12 people to analyse production incidents and delivered the findings as areas of concern to the project team

Sep 2015 - Aug 2018

Consultant

Deloitte Consulting US India Pvt. Ltd., HYDERABAD, TELANGANA
Industry : Financial Services (Insurance)
Roles : Data Analyst & building business process validation suite

Key Responsibilities :

- Analysed Data on MS - Excel, Tableau, Python (NumPy, Pandas, Matplotlib, Seaborn)
- Developed Business intelligence reports to showcase the history and trends across data using Tableau Dashboards and MS- Excel charts
- Queried database to identify key business parameters from production data to build business process validation suite for new version upgrades
- Validated application based on the suite built
- Built Capability Matrix using Tableau to define, the product and state rollout timelines
- Automated the Business Process Validation Scenarios

Jan 2013 - Aug 2015

Business Technology Analyst

Deloitte Consulting US India Pvt. Ltd., HYDERABAD, TELANGANA
Industry : Financial Services (Insurance)
Roles : Requirement Gathering and design

Key Responsibilities :

- Conducted Requirement Gathering sessions/ workshops with business
- Understood business processes, current business challenges and future vision
- Documented functional requirement in form of Acceptance Criteria document
- Articulated multiple Project documents such as Functional Specification documents, Process Flow charts, Screen Prototypes for various state rollouts across multiple products.

Hackathon Projects

Hedge Fund – Predicting Alpha signal using microblogging data:

Alpha signal of a Hedge Fund is used to make purchase decisions about the stock. Currently these funds use 6 financial factors to predict the alpha signal, however a need for a new factor is felt to make better predictions.
These funds collect and tag microblogging data of sentiments from the Social Media platform. These microblogs contain important information about the alpha signal in a stock in tweet format.
Requirement is to build a sentiment analysis model using the tagged data. This sentiment

analysis model should then be used to generate a new stock factor which together with the other stock factors should be used to predict the Alpha Signal.

Approach:

- Analysed data through various Exploratory data analysis and visualization techniques on Python and Tableau to identify patterns and information in tweets.
- Used multiple Natural language processing techniques to convert the unstructured data into structured data and obtain insights from the tweets.
- Implemented Deep Learning techniques like RNN, LSTM to predict the sentiment score based on the tweets
- Techniques used for classifying Alpha value in 5 different categories were Naïve Bayes, Logistic Regression, Decision Tree, K Nearest Neighbours (KNN), Support Vector Machines, Ensemble techniques (Random Forest, XGboost) and Deep learning techniques such as Multilayer Perceptron (MLP), ANN.
- F1 Score was used as scoring metrics to identify the model performance.
- Machine learning models were created using libraries such as: Numpy, Pandas, Matplotlib, Seaborn, Sklearn, TensorFlow, Keras.

Customer Churn Analysis:

An international bank has a business problem with customer retention and observed high churn rates. The bank observed that alarming number of existing customers exit and so they wanted to understand the hidden patterns in their customer behaviour by use of customer data which has early warning signs.

Approach:

- Exploratory data analysis was conducted on the customer data.
- Visualizations were built using Python libraries – Seaborn, Matplotlib and tools like Tableau to understand pattern in customer data.
- Following Classification techniques were used to build the Machine Learning model: Logistic Regression, Naïve Bayes, Decision Tree, Random Forest, Support Vector Machines, XGBoost.
- Recall was used as scoring metrics to identify the model performance.
- Data pre-processing steps such as: Data Cleansing, feature engineering, scaling, imputations, etc were also applied as part of solving the business problem.

Taxi Fare Prediction:

Transport company documents user and driver details, geographical coordinates and pickup and drop time of each taxi. Appropriate taxi fare amount is to be predicted for a taxi ride.

Approach:

- Data was analysed using Python and Excel to understand impact of different attributes on taxi fare.
- Various new features were generated using different feature engineering techniques.

- Valuable insights were derived from existing features and newly derived features to understand the relation between them.
- Implemented numerous Supervised Machine Learning techniques to build a Regression model for the taxi fare prediction
- Machine Learning techniques used to predict taxi fare were Linear Regression, K Nearest Neighbors Regressor, Support Vector Machines Regressor, Decision Tree Regressor, XGBoost.

Skills

- Data Analysis & EDA
- Python
- Tableau
- PySpark
- Optimization
- SQL
- MS-Excel
- Guidewire
- Machine Learning
- Linear Regression
- Logistic Regression
- Text Mining
- Natural Language Processing (NLP)
- Web Scrapping
- Neural Networks
- Deep Learning

Accomplishments

- Received Outstanding Award for continued high quality delivery to client
- Received Applause Award & Spot Awards on multiple occasions for bringing innovative solutions

Education

Jun 2008 - May 2012 **Bachelor of Technology: Jamshedpur**

National Institute of Technology

Travel Visa

H1B US Visa Holder: Valid till 2021