Machine Learning Engineer / Data Scientist

Amar Kumar

www.linkedin.com/in/amarkumargupta

+91 8103902471 , 7892963504

https://github.com/Amarkumar008

amarkumar008@gmail.com

OBJECTIVE

To be associated with a progressive organization, where I can employ Data Science, Data Analysis,Machine Learning, Deep Learning knowledge and skills to contribute to the growth of the organization and personal growth in an effective manner.

SUMMARY

- Total of **6+ years** of working experience as a Machine Learning Engineer and Data Scientist.
- Worked on Machine learning end to end **model deployment** on cloud (AWS,Heroku,GCP)
- Proficient in understanding and **analysing/visualization** of data pertaining to various domains, build best fit models based on the data and providing appropriate insights to business problems.
- Experience with **Data Visualization** Tools like Matplotlib, Seaborn, plotly that help to visually encode data.
- Developing ML algorithms to analyze huge volumes of historical data to make predictions.
- Understanding the programming skills with python and its libraries like Numpy, Pandas ,Matplotlib, Seaborn ,**Scikit-learn** , keras, Tensor Flow etc.
- Perform exploratory data analysis on large sets of data to extract practical insights that will help drive product, platform and business decisions.
- Experience implementing **Supervised & Unsupervised** machine learning algorithms like Linear Regression , Logistic regression, Decision Tree, Random Forest , SVM, KNN.
- Training ML models and tuning their **Hyperparameters**.
- Worked on Automl Library - Pandas profiling , Pycaret ,Datarobot, Evalml

WORK EXPERIENCE

- Worked from June 2022 to Present 2023 in Bayer, Bangalore as Consultant Data Scientist.
- Worked from Oct 2020 to May 2022 in Neil Patel Digital India as Machine Learning Engineer.
- Worked from Apr 2018 to Aug 2020 Digicliff Solutions Pvt ltd. as Senior Data Analyst.
- Worked from Feb 2017 to Apr 2018 as Software Engineer in Wipro, Bangalore.

KEY PROJECTS

➢ **Crop Yield Prediction using Machine Learning :**

Developed and implemented a machine learning project focused on crop yield prediction.

- Successfully improved the model accuracy to 80% in training & 77% in testing dataset after incorporating new data.

- Conducted data analysis and model training on a large dataset of over 7,00,000 rows & 12 features, to predict crop yield with an accuracy of 80%.
- Developed & fine-tuned machine learning models, such as random forests or gradient boosting, to accurately predict crop yields based on the input variables.
- Implemented data visualization techniques to effectively communicate the results & findings to stakeholders, enabling informed decision-making.
- Collaborated with agronomists and domain experts to validate the model's performance and optimize its accuracy for different crop types and regions.

➢ **Crop Recommendation Using Weather and Soil Content:**

- Weather & Soil related samples are taken from the farm & analyzed to determine soil pH, nutrient levels, and texture.
- Historical crop yield data from the region is used for model training. This data is correlated with the historical weather and soil information.
- Various machine learning algorithms, such as decision trees, random forests, or neural networks, are tested to find the most accurate model for crop recommendation.
- The model's performance is validated using cross-validation techniques and metrics like accuracy, F1-score, or RMSE.

➢ **Customer Churn Analysis & Prediction (E-commerce) :**

- Data pre-processing is performed to clean and transform raw data.
- The model identifies relevant features and variables that are strongly correlated with customer churn
- Machine learning algorithms are employed to create predictive models that forecast the likelihood of a customer churning.
- The performance of the models is assessed using metrics such as accuracy, precision, recall, F1-score, & the receiver operating characteristic (ROC) curve. The goal is to build models that accurately predict churn.

ACADEMIC DETAILS

- Bachelor Of Engineering (Electronics & Telecommunication), CSVTU, with **65** %
- HSC from CG board, with **70**% year of passing 2010.
- SSC from CG board with **80.3**% year of passing 2008.

CERTIFICATION

- PG Program in Data Science, Machine Learning and Neural Networks from DataTrained Mumbai.
- Applied Machine Learning with Python by IBM.
- Data Analytics Virtual Experience by Accenture.

TECHNICAL SKILLS

- Python Libraries : Pandas, Numpy ,Matplotlib ,Seaborn , Scikit-Learn , TensorFlow , Keras
- Data Science : Data Analysis ,EDA , Machine Learning ,Deep Learning, NLP
- Software Tools : Jupyter notebook, Pycharm, Google Colab, Google Analytics , Google Trends
- Ms Excel , Power point , Ms Word **.**