

Avijeet Ranawat

Data Scientist with 4+ years of experience.

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WORK EXPERIENCE :

Company : **Fractal Analytics**

Location : Gurugram / Haryana

Role : **Data Scientist**

Duration : 11/2021 – Present

Created **ML** solutions for Fortune 500 clients like Google & Sony PlayStation in **Technology** domain.

- Unsupervised Insights generation for Search Queries :
 - Data mining with **K-Means** & **DBSCAN clustering** for identifying patterns.
 - **Time series** decomposition into trends and seasonality via **tslearn** & **STL**.
 - Sentence embeddings via **TensorFlow Hub** on **GCP** for identifying similar sentences.
- Gaming Analytics with Causal Impact Analysis :
 - Developed algorithms for measuring the **Causal Impacts** via **pymatch**.
 - Feature selection via **XgBoost** & **Random Forest** ensemble models.
 - **A/B testing** for test vs control results, and the net uplift calculations.
 - Calculated LTV, propensity scores and other **KPI**.
 - **Hypothesis Testing** via **t-test** for the statistical analysis of results.
 - Did exploratory data analysis and visualized results via **Power BI** reports.

Company : **Tata Consultancy Services**

Location : Pune / Maharashtra

Role : **Machine Learning Engineer**

Duration : 07/2018 – 10/2021

Created **ML** solutions for internal projects.

- **NLP** issue **classification** and resolution :
 - Applied **Natural Language Processing** for classifying user intents.
 - Handled class imbalance problems using **SMOTE** technique for oversampling.
 - Implemented a custom entity extraction via **Spacy** language model.
 - Deployed the solution using the **Django** framework and **REST API**.
- Google **DialogFlow Chatbot** :
 - Created a chatbot for user **intent** identification and issue redressal.
 - Real time automated replies via **Knowledge Graphs Neo4j** of Q/A.
 - Built **Decision Tree** model for segregating inputs.

Institute : **Georgia Tech**
Role : **Deep Learning Student**

Location : Online
Duration : 01/2022 – 05/2022

Created **ML** and **DL** projects for **Machine Learning** Specialization course work.

- **Hateful Memes Detection :**
 - Created a multimodal **ViLBERT** model combining **BERT & ResNet**.
 - Identified **NLU** text and image **embeddings** with **Transformers**.
 - Utilized **PyTorch** frameworks along with **MMF**.
 - **AUC, ROC**, precision, recall were used as the performance metrics.
 - **Cloud** Platform **AWS** was used for model deployment on **GPU**.
- **Portfolio Allocation and Prediction :**
 - Solved **optimization** problem via **Scipy**, maximizing the cumulative returns.
 - Created **ETL** and data pipelines and did **Linear** and **Logistic Regression**.
 - **RNN, LSTM** were utilized for sequence based data.
 - **Kafka, Scala** for streaming based data.
 - Utilized **Reinforcement Learning** Q-learner for buy sell signal prediction.

SKILLS :

Skills: Python, SQL, Statistics, Tableau, Linux
Libraries: Numpy, Pandas, Scikit-Learn, Spacy, NLTK
Certifications: Microsoft Azure Cloud Engineer
Achievements : AI-ML Champ winner Microsoft, Star Award & On the Spot Award winner
Interests: Recommendation Systems, NLP, CV, ASR, Neural Networks
Extras: Java, SAS, R, MLOps, Big data, Spark, Hadoop, MapReduce, Hive
Soft skills: Excellent Leadership, Communication, Presentation skills
Languages: English (fluent), Hindi (native)

EDUCATION :

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing
Online Masters of Science in Computer Science (M.S.)

Location : Atlanta, USA
Years : 2021 - 2023

INSTITUTE OF TECHNOLOGY & SCIENCE, IPS Academy
Bachelor of Engineering in Computer Science (B.E.)

Location : Indore, India
Years : 2014 - 2018