Hemansh Anand

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↖ Link to my Portolio Website ⭘ Github: hemansanand 🚩 Sponsorship Not Required

PROFESSIONAL SUMMARY

Data loving analytical thinker, passionate about data science with a background in Computer Science and Statistics. Drives the adoption of data-driven decisions in the day-to-day operations of the organization by leveraging expertise in Data Science and Machine Learning.

PROFESSIONAL EXPERIENCE

Data Science Intern   May 2021 – Aug 2021 | Gurgaon, India
Radio Frequency Systems(RFS) India Pvt. Ltd
- Designed, built and maintained data pipelines and systems for data ingestion from **APIs**
- Teamed with 4 interns to design an **end-to-end ML pipeline** for pre-processing (raw) client data, feature engineering, feature selection, model training and testing
- Updated data streamlining processes, that resulted in a **27% redundancy reduction**
- Built data models and maps within **AWS** environment to generate meaningful insights from customer data, which resulted in enhancing sales efforts by **12% (revenue augmentation ~$300K, annually)**

Energy Data Analyst   Sep 2020 – Dec 2020 | Faridabad, India
National Thermal Power Corporation(NTPC) India Ltd
- Collected, collated and normalized existing consumption, performance and operational **data of over 120k rows**
- Transformed raw data into MySQL with a **custom-made ETL application** to prepare unruly data for machine learning
- Developed machine learning models with **Python** and **scikit-learn**, which enabled the prediction of fuel usage with **95% accuracy**.
- Successfully **increased the savings in fuel costs by 25%** using proprietary software, modelling tools and specialist information

Machine Learning Intern   May 2018 – Aug 2018 | Noida, India
Tech Mahindra
- Built **recommendation solution** to provide personalized service to enhance user experience & improve ROI
- Implemented **Principal Component Analysis(PCA)** to identify the key business **KPIs**
- Used collaborative filtering to build a recommender system with Python, leading to augmentation of **150% repeat orders**

EDUCATION

MSc Data Science   Feb 2021 – Feb 2022
University of Surrey   Guildford, United Kingdom
   Relevant Modules -Statistics, Machine Learning, Big Data, Natural Language Processing, Cloud Computing

MSc Applied Economics and Statistics   Sep 2019 – Sep 2020
University of Strathclyde   Glasgow, United Kingdom

B.Tech Electronics and Communication Engineering   Aug 2015 – Aug 2019
Jaypee Institute of Information Technology   Noida, Delhi (NCR), India

TECHNICAL SKILLS

Languages & Aptitudes (Python, C, R , scikit-learn, TensorFlow, NLTK, libsvm, pyTorch, NumPy, Pandas, Unix)

Data Visualization (matplotlib, Seaborn, Plotly, Tableau) • **Regression** (Logistic,Linear,Random Forest)

Classification (K-NN,SVM,Random Forest,Naive Bayes) • **Neural Networks** (ANN,CNN, LSTM-RNN)

Database (MySQL,NoSQL, MongoDB) • **Web Development** (HTML, CSS) • **Hardware** (RaspberryPi, Arduino)

Frameworks & Cloud Services (Flask, Amazon Web Services (AWS), Google Cloud Platform(GCP), Azure, Heroku)

DATA SCIENCE PROJECTS

Stock Trading Chatbot   Sep 2021 – present
Chatbot | Virtual Assistant | Conversational AI
- **Primary Goal**: Build a Stock Trading Assistant which analyses stocks and gives Buy/Sell recommendations
- **Proposed Solution**: The bot analyses stocks on 6 Technical Indicators and Market Sentiment Analysis
- **Result**: *Project under Development Phase*
- **Tools**: Dataset - Yahoo Finance | Rasa | Python | TensorFlow | Alpaca API | Flask

Facial Expression Recognition using Deep Learning ⬈   Aug 2021
Classification Problem | Computer Vision
- *Primary Goal*: Build a web app to categorize facial expressions into seven different emotions
- *Solution*: Trained a CNN in Keras from scratch to recognize facial expressions in real-time
- **Result**: Achieved an accuracy of **73.85%**
- *Tools*: *Dataset - FER 2013 Data | CNN | Python | TensorFlow | OpenCV | Keras | Flask*

Movie Genre Prediction using Natural Language Processing ⬈   Jun 2021
Multi-Label Classification Problem | NLP
- *Primary Goal*: Build an interactive Web App to predict movie genres based on their plot descriptions
- *Solution*: Applied NLP techniques and Machine Learning Algorithms to classify movies as one or more genres
- *Result*: Achieved Precision Score of **88%** and Recall Score of **82%** using One vs Rest Classifier with Multinomial Naive Bayes using TF-IDF plot vectors (min_df=20) and Min-Max Scaling
- *Tools*: *Dataset - IMDB Movies | Python | SQL | Bag of Words | Standard Scaling | Logistic Regression | Flask*

Airlines Passenger Forecasting ⬈   May 2021
Regression Problem | Time Series
- *Primary Goal*: Develop a model to predict the number of international airline passengers for next 10 years
- *Solution*: Time Series Forecasting with **ARIMA** model in Python
- *Result*: Mean Absolute Error(MAE) of **10.05%** achieved.
- *Tools*: *Dataset - Air Passengers By Kaggle | Python | ARIMA | Matplotlib | Flask*

Handwritten Digit Recognition   Apr 2021
Classification Problem
- **Primary Goal**: Build an efficient model to recognize handwritten digits
- **Solution**: Trained a CNN in Keras from scratch to recognize handwritten digits
- **Result**: Achieved an accuracy of 99.52%
- **Tools**: Dataset - MNIST Database | CNN | Python | TensorFlow | Keras

Customer Segmentation with Python   Mar 2021
Unsupervised Learning | Clustering
- **Primary Goal**: Perform customer segmentation to help businesses understand their target audience
- **Solution**: Built a K-Means clustering algorithm for customer segmentation in Python
- **Result**: Successfully built a K-Means clustering model analyzed the behaviour of individuals in each cluster
- **Tools**: Dataset - Mall Customers Data | K-Means Clustering | Python | scikit-learn | NumPy | seaborn | matplotlib

CERTIFICATIONS AND COURSES

Data Scientist Professional Certificate
Data Camp   Aug 2021

Machine Learning by Stanford University
Coursera   Jul 2020

Python for Data Science
IBM   Feb 2020

Automate the Boring Stuff with Python Programming
Udemy   Oct 2019

Embedded Systems and IoT
Optimus Research Labs   Apr 2016