Hemansh Anand

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⚓ Portfolio Website 🏳 Sponsorship Not Required- Post Study Work (PSW) permit under Graduate Route

EDUCATION

MSc Data Science
University of Surrey
Feb 2020 – Present
Guildford, United Kingdom

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

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

PROJECTS PORTFOLIO

Facial Expression Recognition using Deep Learning ⧉   Jun 2021
Classification Problem
- ***Primary Goal***: Build an efficient model to categorize facial expressions into different 7 emotions.
- ***Solution***: Trained a CNN in Keras from scratch to recognize facial expressions in real-time.
- **Result**: Achieved an accuracy of %.
- ***Technology***: Dataset - ICML Face Data | Python | TensorFlow | OpenCV | Keras | Flask

Movie Genre Prediction using Natural Language Processing(NLP) ⧉   Apr 2021
Multi-Label Classification Problem
- ***Primary Goal***: Build an interactive Web App to predict movie genres based on their plot descriptions
- ***Solution***: Applied various NLP techniques and ML 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 Multnimoial Naive Bayes using TF-IDF plot vectors (min_df=20) and Min-Max Scaling.
- ***Technology***: Dataset - IMDB Movies | Python | SQL | Bag of Words | Standard Scaling | Logistic Regression | Flask

Airlines Passenger Forecasting ⧉   Apr 2021
Regression Problem | Time Series
- ***Primary Goal***: Develop a model to predict the number of international airline passengers in units of 1,000.
- ***Solution***: Applied various NLP techniques and ML Algorithms to classify movies as one or more genres
- ***Result***: Minimum mean squared error of 10.80% achieved.
- ***Technology***: Dataset - Air Passengers By Kaggle | Python | LSTM | Matplotlib | Flask

PROFESSIONAL EXPERIENCE

Data Science Intern   May 2021 – Aug 2021 | Gurgaon, India
RFS India Pvt. Ltd
- Pitched directly to the Regional Manager a **+15% gross margin** expansion opportunity and a price predicting model to forecast revenue.
- Designed an end-to-end ML pipeline for pre-processing (raw) client data, feature engineering, feature selection, model training and testing. Predictions included if a customer would purchase a product or not, and the quantity they would buy.
- Implemented Churn Prediction and Market Basket Analysis to increase customer lifetime value and customer retention rate by **20%**

Energy Data Analyst Intern   Sep 2020 – Dec 2020 | Faridabad, India
NTPC India Ltd
- Pitched directly to the Regional Manager a +15% gross margin expansion opportunity, a price predicting model to forecast revenue, and improved customer acquisition rate by 15%
- Designed an end-to-end ML pipeline for pre-processing (raw) client data, feature engineering, feature selection, model training and testing. Predictions included if a customer would purchase a product or not, and the quantity they would buy.
- Implemented Churn Prediction and Market Basket Analysis to increase customer lifetime value and customer retention rate by 20%

SKILLS

Languages & Aptitudes (Python, C, R , Tensorflow, Keras, pyTorch, Numpy, Pandas, Matplotib, Plotly, Tableau),
Regression (Logistic,Linear, MultipleLinear,Random Forest), **Classification** (K-NN,SVM,Random Forest,Naive Bayes),
Neural Networks (ANN,CNN & LSTM-RNN), **Database** (MySQL, MongoDB),
Frameworks & Cloud Services (Flask, Dash, Django, AWS, Microsoft Azure)