Pranshu Diwan

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Available: **May– December 2020**

EDUCATION

Northeastern University, Boston, MA
Khoury College of Computer and Information Sciences — September 2019 - present
Candidate for a Master of Science in Data Science — Expected graduation: Dec 2021
Related Courses: Supervised Machine Learning, Algorithms, Linear Algebra and Statistics

University of Mumbai, Mumbai, India
Bachelor of Technology in Information Technology — July 2015 - May 2019
Related Courses: Data Structures, Data Mining, Big Data, Cloud Computing, Calculus

TECHNICAL SKILLS

Languages	Python, R, Java, SQL, C, HTML5, CSS
Libraries	Tensorflow, Keras, Pandas, NumPy, Scikit-Learn, NLTK, SpaCy, Matplotlib
Cloud, Databases	Amazon EC2, AWS Lambda, Google Cloud Platform, MySql, HSqlDb, Oracle DB
DevOps	Jupyter Notebooks, Flask, Heroku, Git, Agile, Anaconda, Spyder
Soft Skills	Critical thinking, Intellectual curiosity, Effective communication, Management, Leadership

WORK EXPERIENCE

Data Science Intern
Hashtag Loyalty, Mumbai, India — June 2018 – July 2019

- Implemented a reinforcement learning model to increase email open rates by 2.6%
- Optimized email model to decrease time complexity and run time down to 10ms from 1 second per user and deployed it to a production environment on AWS instance using Flask.
- Researched and presented a detailed report identifying current market trends in the food and beverage (F&B) industry. Defined monetizable Key Performance Indicators (KPI's) for our clients.
- Analyzed user data to predict user buying behavior by RFM LTV analysis, and a recommendation system.
- Created a deep learning model ARIMA to forecast revenue of our clients with an accuracy of 12%.
- Trained a model using Natural Language Processing libraries to tag food items in specific categories.
- Performed in-depth Statistical Analysis and hypothesis testing on data for selection of features.

Software Development Intern
Hexaware, Mumbai, India — June 2017 – July 2017

- Designed a web app and a standalone Java application to perform CRUD (Create, Read, Update, Delete), Search and Import Database operations on employee database.
- Developed the project in code sprints in MVC structure adopting AGILE software development approach.

ACADEMIC PROJECTS

Toxic Comments Classification Challenge (Kaggle – Bronze medal)

- Trained a model (ensembled) capable of detecting different types of toxicity - threats, obscenity, insults, and identity-based hate with an accuracy score of 0.9865 on the leaderboard. (Top 7%)

Item Classification (Unsupervised Learning, NLP)

- Classified food items into specific categories (veg, non-veg, drinks, etc.) by an unsupervised approach using Natural Language Processing and its libraries (SpaCy, Word2Vec, GloVe).

Facial Emotion Recognition (Deep Learning, Deployment)

- Trained a CNN model on AWS EC2 instance to classify facial emotions like happy, anger, surprise, etc. on the FER 2013 Dataset with an accuracy of 65%. Deployed using Flask. Selected for college exhibition.

PUBLICATIONS

Analysis of Facial Emotion Recognition (IEEE)

- Published paper covers datasets and algorithms like Support Vector Machines, Hidden Markov Models, and Convolutional Neural Network used for the task of Facial Emotion Recognition (FER).

Deep Learning based approaches for Recommendation Systems (Springer)

- Accepted paper studies different Deep Learning methods for recommendation systems highlighting important aspects like design and implementation.

EXTRA-CURRICULAR

- Literary Secretary, Vidyalankar Institute of Technology Student Council 17-18.
- Lead Organizer Inspire to Empower 2019 (celebrating International Women's day) at Vidyalankar Institute.
- Secretary General, Vidyalankar Institute of Technology Model United Nations 2018.