AYUSH DADHICH

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https://ayushd64.github.io/ayushd64portfolio/

EDUCATION

Illinois Institute of Technology, Chicago, IL   Expected May 2021
Master of Science, Data Science
Coursework: Machine Learning, Data Preparation and Analysis, Big Data, Applied Statistics, Statistical Learning, Artificial Intelligence,
Monte-Carlo Methods in Finance, Project Management, Public Engagement

Global Institute of Technology, India   May 2017
Bachelor of Technology, Computer Science

WORK EXPERIENCE

Accenture, Chicago IL (*Data Science Intern*)   Jan 2021 – Present
- Drug discovery and development pipeline is resource intensive and time-consuming, making these the main barriers for rapid drug development.
- Current challenge is to develop discovery pipeline that can identify promising Targets early.
- A robust method that can rank the potential Drug Target with respect to its successful clinical translatability is still needed.
- Analyze existing methodologies of literature-based target identification.
- Identify targets for Pancreatic Cancer using selected/modified literature mining and prioritize through additional features.
- Working as SCRUM Master in agile environment and collaborated with off-shore team in India for final product delivery.

Alkurn Technologies, India (*Software Engineer*)   Aug 2017 – May 2019
- Handled back-end (SQLite) of Android applications and designed advance applications for travel industries.
- Collaborated with cross-functional teams to define, design and ship new features.
- Worked with external data sources and API. Unit tested code for robustness, including edge cases and general reliability.
- Improved application performance by 5% and worked on bug fixing.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy), C, C++, JAVA, HTML, CSS, SQL
Machine Learning (ML): Classification, Regression, Clustering models
NLP: Lemmatization, TFIDF, Word2vec, LSTM, Word Embeddings, Encoders & Decoders, Transformers, BERT
Cloud Technology: AWS, Azure
Big Data: Hadoop, Map-Reduce, Spark, HBase, Hive, Pig, Spark-SQL
Data: Modeling, Visualization (Tableau), Analysis
APIs: Google API, Facebook API, SMS API, REST API
Google Firebase: Authentication, Database, Storage

PROJECTS

Fake News Classifier, Illinois Institute of Technology
- Considered a corpus of 20800 various types of news to solve the problem.
- Used Lemmatization technique to create a robust vocabulary.
- Utilized Padding and One-Hot encoding to convert the corpus into vectors of same length.
- Developed Deep Learning NLP model (neural network) to classify the news using LSTM with 98% accuracy.

Heart Failure Death Prediction, Illinois Institute of Technology
- Analyzed dataset containing the medical records of 299 heart failure patients.
- Considered only 4 most relevant feature variables out of 13 by using sklearn.feature_selection library.
- Classified death events with 90% accuracy from Decision Tree model.

Soccer Analysis, Illinois Institute of Technology
- Leveraged 1.5M rows soccer dataset to help Soccer manager with restricted budget to create team with unbeaten overall statistics.
- Achieved optimal RMSE of 0.385452 with Random-Forest Regressor model, which is 83.94% better than SVM Regressor model.
- Achieved 2nd position from 9th position in the tournament, after optimizing the teams.
- Developed a Django web-application and deployed the model for the production purpose by utilizing AWS(EC2) instance.

Movie Data Analysis, Illinois Institute of Technology
- Developed a data processing ETL pipeline to insert, modify, transform and implemented Big-Data techniques in research relation between proposed data.

- Derived meaningful understanding of data streaming on movies from IMDB dataset.
- Tools and Technology used: Azure, HDFS, SparkSQL, HBase (NoSQL), Python.

Mubelo-Search Engine (Android Application), Global Institute of Technology
- Developed a local search engine for people of all walk of life to get the contact number and other informative details of a vendor from various categories.
- To connect the user to the most accurate person based on their previous ratings and reviews at optimum cost using learnings of API and Google Firebase.

TRAININGS
- 12-week Android training program, Hewlett Packard (HP), 2016
- 12-week Industrial JAVA training, Road Ahead Technologies Pvt Ltd. (RAT), 2015