

AYUSH DADHICH

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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

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

Languages: Python, C, C++, JAVA, HTML, CSS, MySQL, NoSQL

Machine Learning: Classification, Regression, Clustering

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

Heart Failure Death Prediction, Illinois Institute of Technology

Sep 2020 – Dec 2020

- 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

Feb 2020 – May 2020

- 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

Sep 2019 – Dec 2019

- Developed a data processing 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

Feb 2017 – May 2017

- 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