VISHWAS DESAI

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EDUCATION

Indiana University Bloomington – Bloomington, IN **01/2021 – Present**
Master of Science in Computer Science (GPA: 3.5/4.0)

Visvesvaraya Technological University – India **08/2016 – 08/2020**
Bachelor of Engineering in Information Science & Engineering (GPA: 8.0/10.0)

TECHNICAL SKILLS

Programming Languages: Python, Java, R, JavaScript (ES6), HTML 5, CSS 3
Databases: MySQL, MongoDB, Neo4j
Web Technologies: ReactJS, AngularJS , NodeJS, Flask, Fast API, REST
Data Science tools: Tableau, TensorFlow, Julia, Deep Learning, OpenCV
Certifications: *'Python for Everybody Specialization'* by University of Michigan (2018) | *'What is Data Science? And Open-Source Tools for Data Science'* by IBM (2019)

WORK EXPERIENCE

Software Engineering Intern - Titan Company Ltd. (TATA group) **01/2020 – 03/2020**

- Developed and implemented RESTful API, Spring Boot Framework, and other architectures to build a product introduction platform for Tanishq.
- Integrated a search engine allowing for easier searches of products featured and improved searches by decreasing search time by 10 seconds.
- Enhanced the user experience by refactoring the dashboard using AngularJS and NativeScript and building a feedback page for the Big Data and AI team to collect feedback.
- Collaborated with the Big Data & AI team to significantly increase productivity of the platform.

KEY PROJECTS (*Tech Stack – Python, Java, C, ReactJS, MySQL, Machine Learning, Deep Learning*)

Movie ratings prediction and sentiment analysis | *Python, IPython, Naïve Bayes, Neural Networks* **05/2021**

- Merged 4 different datasets from multiple sources to a common dataset, performed sentimental analysis on the collated dataset and implemented a Naïve Bayesian classifier to predict the ratings for 10,000 movies.
- Modelled and implemented Deep Neural Network, Support Vector Regressor, and Random Forest Regressor models to evaluate and predict the performance of a movie based on viewer's sentiment.

Mountain Finding | *Python, Bayes net, Viterbi Algorithm* **03/2021**

- Designed and devised an identification system to recognize the shapes of mountains by using a dataset of sample images of mountains.
- Upgraded the identification system to estimate the ridge line that separates the mountains from the sky using Bayes Network and Viterbi algorithm.

Traffic Congestion Prediction | *Python, C, Arduino, Django, Android Studio, React Native* **09/2020**

- Created and executed an embedded system prototype using Arduino Uno, proximity sensors and designed the data collection algorithm in C programming language.
- Implemented K-Means Clustering in Python on 1000s of observations to predict the traffic flow metric for each data cluster.
- Developed the backend of "Traffix", an easy-to-use web application, in Python using Django framework and ReactJS for the frontend.

Dive TV – TV Recommendation Engine | *Python, NodeJS, Flask API, Machine Learning* **05/2020**

- Implemented a recommendation system for television shows and movies using Machine Learning algorithms like K-Means Clustering for a dataset of 100,000 shows and movies
- Materialized the recommendation engine in Python and developed the front end of the web application using NodeJS and Bootstrap.