

VISHWAS DESAI

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EDUCATION

Indiana University Bloomington – Bloomington, IN

Jan 2021 – Present

Master of Science in Computer Science (GPA: 3.5/4.0)

Visvesvaraya Technological University – India

Aug 2016 - Aug 2020

Bachelor of Engineering in Information Science & Engineering (GPA: 8.0/10.0)

TECHNICAL SKILLS

Skills: Microservices, Distributed Systems, Full Stack Development, Machine Learning

Languages: Python 3, Java, JavaScript (ES 6), HTML5, CSS 3

Databases: MySQL(RDBMS), MongoDB (NoSQL), Neo4j

Tools & Frameworks: Linux, Git, Django, Bootstrap, ReactJS, Node.js, Flask, Fast API, Docker

WORK EXPERIENCE

Graduate Teaching Assistant – Indiana University

Aug 2021 - Present

- Executed a variety of teaching and over 50 real-time assessment activities, including tutorials, for a bachelor level course.
- Assisted with the assessment process utilizing a range of methods and approaches, and provided 190+ students with effective, timely, and relevant feedback to help them learn more effectively.
- Designed and conducted 20+ laboratory sessions that provided students with the necessary hands-on experience with Java.

Software Engineering Intern - Titan Company Ltd. (TATA group)

Jan 2020 – Mar 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, MERN stack, Machine Learning, Deep Learning)

Movie ratings prediction and sentiment analysis | Python, Naïve Bayes, Neural Network

May 2021

- Implemented a Naïve Bayesian classifier to perform sentimental analysis on a collated dataset of 10,000 movies collected from multiple sources.
- Modelled and implemented DNN, Support Vector Regressor, and Random Forest Regressor models to evaluate and predict the performance of a movie based on viewer's sentiment.
- Effected the prediction by increasing the accuracy by 15% than existing prediction systems.

Mountain Finding | Python, Bayes net, Viterbi Algorithm

March 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

July 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.