

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

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

Languages: C, Python 3, Java 8, JavaScript (ES6), HTML 5, CSS 3

Databases: MySQL, MongoDB

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

WORK EXPERIENCE

Graduate Teaching Assistant – Indiana University

08/2021 - 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.

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

Movie Recommendation System | Python, Neural Networks, CSS, HTML, JavaScript

05/2021

- Implemented a Naïve Bayesian classifier to perform sentimental analysis on a collated dataset of 10,000 movies collected from multiple sources.
- Modelled and implemented a Deep Neural Network to evaluate, predict the performance of a movie based on viewer's sentiment and increased the prediction accuracy by 15% than existing prediction systems.
- Implemented the recommendation engine in Python and developed the frontend of the website using CSS3, HTML5 and JavaScript.

Online Athleisure store | Java, Spring, MySQL, REST, ReactJS

03/2021

- Designed and devised a dynamic e-commerce athleisure store as a one stop shop to search, purchase, review athleisure products like shoes.
- Developed a flexible and lightweight website by designing the frontend using ReactJS and the backend in Java using Spring framework and its libraries.
- Implemented CRUD features on web services using REST APIs and MySQL

Traffic Congestion Prediction Application | Python, C, Arduino, Django, ReactJS, IoT

07/2020

- 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.