

Harsimran Singh Dhillon

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EDUCATION

Binghamton University, Watson College of Engineering

Masters of Science, Computer Science

Binghamton, NY

August 2023 - May 2025

K. K. Wagh Institute of Engineering Education and Research

Bachelor of Engineering, Computer Engineering

Nashik, India

August 2017 - June 2021

SKILLS AND INTERESTS

Programming languages : Java, Python, C++, Vue.js, Angular.js, JavaScript, HTML, CSS

Databases: MySQL, MongoDB

Frameworks & Tools: Apache Camel, AWS Openshift Container, Oracle SQL Developer, Spring, GitHub, Jenkins, Jira, Postman, IntelliJ, VScode

WORK EXPERIENCE

Analyst, Software Developer

July 2021 - July 2023

TIAA GBS

Pune, India

- Led the successful migration of a complex project from Mule to Apache Camel, ensuring seamless integration and deployment in the production environment within a tight deadline of 4 months
- Developed and deployed an API to dynamically modify backend payloads, optimizing communication efficiency and reducing response time by 50% in high-traffic scenarios
- Worked on production issues, enhancements, and release support for 4 applications and resolved an application server crashing issue in the production environment by lowering the memory usage by 40%
- Automated a human task of closing thousands of requests using a scheduler to minimize manual effort by 35%

Machine Learning Intern

June 2020 - July 2020

Cognifront

Nashik, India

- Analyzed and executed Decision Tree algorithm, KNN algorithm, and SVM algorithm
- Evaluated a project to study the accuracy and error obtained for a particular data set using 4 different algorithms

PROJECT EXPERIENCE

Depression Detection System

May 2021

- Led a team of 3 to design a machine learning project based on 3 modules namely Facial features, Acoustic features, and PHQ-9 questionnaire to detect depression
- Created and built the website's UI using Vue.js and JavaScript to integrate all the 3 components
- Implemented the backend module to extract the facial features with an accuracy of 86%

Clinic Staff Attendance System

March 2020

- Successfully delivered Attendance Marking System to the client to reduce manual labor by 25% and paper waste by 40%
- Revamped the accuracy of an existing machine learning model by feature selection to achieve an accuracy of 87%
- Led the design and implementation of the website's user interface (UI) and the development of back-end data mapping using Vue.js and JavaScript

Online Food Ordering Application

February 2019

- Created an online meal ordering website using JavaScript, HTML, CSS, and MySQL
- Collaborated the website's UI design and worked on the front-end/back-end integration's implementation to make the application as user-friendly as possible

EXTRACURRICULAR ACTIVITIES

- Authored a research paper on the topic of Machine learning based depression detection system in the IJCRT journal(ISSN: 2320-2882 and Impact factor: 7.97)
- Delivered a seminar to the class on the topic "Auto detection of unexpected accidents under bad CCTV conditions" in 2020 and coordinated the AI Fest event held at our college in 2019
- Played inter-collegiate football tournament for 3 consecutive years(2018-2020), 2 times runner-up in KSF football tournament(2019-2020), and represented the Nashik district in a football tournament