

Harsimran Singh Dhillon

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EDUCATION

Binghamton University, Watson College of Engineering

Masters of Science, Computer Science - (GPA: 3.67)

Binghamton, USA

August 2023 - May 2025

K. K. Wagh Institute of Engineering Education and Research

Bachelor of Engineering, Computer Engineering - (GPA: 3.64)

Nashik, India

August 2017 - June 2021

SKILLS AND INTERESTS

Programming languages : Java, Python, C++, React, Angular, JavaScript, HTML, CSS

Databases: SQL(MySQL), NoSQL(MongoDB), Oracle

Frameworks & Tools: Apache Camel, AWS OpenShift, Git/Github/Gitlab, Jenkins, Jira, Agile & Scrum Project Management, Spring Boot, Postman, IntelliJ IDE, Visual Studio code, Android Studio

WORK EXPERIENCE

Analyst, Software Developer

July 2021 - July 2023

TIAA GBS

Pune, India

- Implemented agile methodology for continuous integration and support during critical 4-month API migration from Mule framework to Apache Camel
- Reduced response times during server outages by 40% by analyzing and resolving complex issues, and supporting the testing team for user checkouts while optimizing the CI/CD of a REST API
- Resolved an application server crash issue in the production environment by preserving 40% of the memory used; addressed production issues and enhancements; and offered DevOps support for 4 applications
- Automated a human task of closing thousands of requests using queries and scheduler to minimize manual effort by 35%

Machine Learning Intern

June 2020 - July 2020

Cognifront

Nashik, India

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

PROJECT

Depression Detection System

April 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 Angular 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

- 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

March 2019

- Created an online meal ordering website using JavaScript, HTML, CSS, and MySQL
- Collaborated with the UI web design and worked on the front-end/back-end integration's implementation to increase customer engagement

EXTRACURRICULAR ACTIVITIES

- Research paper - **Machine Learning-Based Depression Classification Model** in the IJCRT journal (ISSN: 2320-2882 and Impact factor: 7.97)
- Multicultural Event Planning Committee Member - Graduate Student Organization
- 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