

Ishan Sachadeva

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EDUCATION

Master of Applied Computing, Artificial Intelligence Stream

Sep 2023 – Present

University of Windsor | Windsor, ON

- Available for 4 or 8 months internship opportunity starting September 2024
- Relevant Coursework: Introduction to Artificial Intelligence, Statistical Learning, Advance Database Topics, Advance Systems Programming, Advance Computing Concepts.

Bachelor of Technology in Computer Science

May 2019 – May 2023

SRM Institute of Science and Technology | Chennai, India

- Relevant Coursework: Data Structures, Operating Systems, Machine Learning, Compiler Design

SKILLS

Programming Languages: Python, Java, C++, C, SQL, Shell Scripting

Web Development: HTML5, CSS3, JavaScript

Database and Cloud Platforms: MySQL, Amazon Web Services (AWS)

Data Science: Machine Learning, Artificial Intelligence, Deep Learning, Object Detection, Natural Language Processing, Computer Vision, Data Analysis, Business Analysis, Business Intelligence

Methodologies: Software Development Lifecycle, Scrum, Waterfall, Object Oriented Design

Tools & Platforms: Tableau, Microsoft PowerBi, IBM Cognos Analytics, Ms Office (Excel, Powerpoint), Jupyter Notebook, Anaconda, Git, Visual Studio Code, JIRA

Soft Skills: Leadership, Communication and collaboration, Attention to detail, Adaptability, Conflict resolution and problem solving

WORK EXPERIENCE

Research Intern

Nov 2021 – Apr 2023

SRM Institute of Science and Technology | Chennai, India

- Supported the research and development of two major and two minor projects as a part of a cross-functional team.
- Played a crucial role in the major projects by working extensively with pre-trained deep learning models, conducting thorough testing to evaluate their performance across various scenarios.
- Provided valuable support for minor projects by making edits to the research papers and maintaining accurate data logs, facilitating seamless project progression.

PROJECTS

Flight Price Analysis System

Sep 2023 – Dec 2023

Technology: Java, HTML5, CSS3, JavaScript, Selenium

- Developed a robust solution and a user-friendly interface using **HTML**, **CSS** and **JavaScript** for analysing flight prices between specified destinations, enhancing affordability in booking flights.
- Utilized **selenium** to crawl through dynamic **websites**, systematically extracting pricing information to provide users with accurate and up-to-date data.
- Solved various functionalities such as **inverted indexing**, **frequency count**, **search frequency**, **spell checking** using **Java**.
- Implemented **data analysis** techniques to interpret pricing trends and patterns, enabling users to make informed decisions.

- Demonstrated strong problem-solving skills and attention to detail in addressing technical challenges associated with dynamic web content.

Object Detection for Visually Impaired People

Jan 2023 – Apr 2023

Technology: Python, Google Text-to-Speech, Computer Vision, Neural Networks, JIRA

- Defined the strategy for recognition of common items or obstacles to aid visually impaired individuals.
- Identified the challenges of the project and worked on converting object detection into **auditory feedback** using **Google text-to-speech** and **WordCloud** libraries.
- The annotated photos in the dataset were used in the training phase of **Faster R-CNN** model, for the optimization of the ability to recognize and categorize the objects in scene with accuracy.
- Contributed to the translation of supervisor requirements into functional specifications and the design of solutions, adhering to the agile methodology. In order to manage the project timelines, we utilized **JIRA**.

PUBLICATIONS AND PRESENTATIONS

Engagement in Video-graphic Online Learning using Emotional Dimensions

Date Published: 3rd April 2023

Conference: ICONAT 2023 (International Conference for Advancement in Technology)

Paper Link: [Engagement in Video-graphic learning](#)

An analysis on the Performance of Different Categories of CNN models over Covid-19 Dataset

Date Published: 13th April 2022

Conference: ICEARS 2022 (International Conference on Electronics and Renewable Systems)

Paper Link: [Analysis on the performance of different categories of CNN models over Covid-19 dataset](#)

CERTIFICATION

IBM Data Analysis and Visual Foundations

Jan 2023

HACKATHONS

Hackathon 2k21

Jun 2021

ECELL IIIT Pune, India

- Supported a team of four individuals, each contributing unique skill set, to develop an E-Commerce web application using technologies such as HTML, CSS and JavaScript.

UNSCRIPT 2k22

May 2022

Unscript, India

- Collaborated with a team of four individuals to give the solution for the project topic provided 'Flood Detection'.
- In a remarkable display of teamwork, the team conceptualized, developed and implemented the solution from scratch within a single day.