Akarshan Jaiswal

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# Education

## Master of Science (M.Sc.) in Data Science 2023-2024

School of Mathematical and Computer Sciences, Heriot-Watt University Edinburgh, Scotland, UK

## Bachelor of Technology (B. Tech) in Computer Science and Engineering 2014-2018

Amity School of Engineering & technology, Amity University Lucknow Campus, India

# Experience

* **Student Staff** July 2023 - August 2023

Heriot-Watt University Edinburgh, Scotland, UKOnline

* + Raised funds for Access bursaries as part of a 6-member team, helping underprivileged or university students with an underrepresented background.
  + Connecting and networking with different alumni, to raise awareness and funds in the amount of £1500.
  + Participated in a lot of team-based events and activities.
* **Software Engineer 2 and Software Development Engineer** December 2018 - December 2022Nissan Digital IndiaTrivandrum, India
  + Worked in many different projects covering different domains such as Data Science, PLM, Web development,

Schedule optimization and algorithm optimization applications.

* + Researched and Implemented various Proof of concepts.
  + Strong knowledge of creating Workflow, Life-cycle implementation, and Agile Methodologies such as Kanban and Scrum.
  + Direct experience with data analysis, performance monitoring, code profiling and system debugging.

# Projects

## Japanese to English Language Converter

A context-based Japanese to English document translator.

* + Developed a deep neural network model - LSTM, which learns from a custom dataset, and translates text from Japanese to English.
  + Provided context-based translation, to give meaningful outputs.
  + Designed the solution to work on a local system with no dependency on the Internet or any web service.
  + Integration of AI model with web application using Flask and Python.
  + Development time - 3 months, Dataset size - 80000 distinct samples, Accuracy - 81%

## Comparison and Evaluation of Neural Network Architectures

Implementation of many types of Neural Network architectures with respect to different Mathematical problems.

* + Conducted a detailed literature review on distinct types of existing neural network architectures and their respective applications.
  + Developed a standard evaluation framework for comparison of these architectures.
  + Generated the datasets for evaluation and training purposes.
  + Implemented and trained different neural networks.
  + Technology Used: Python.
  + Libraries Used: TensorFlow, NumPy, Matplotlib, Pandas.

## Covid-19 Data Analysis

Statistical analysis of total COVID-19 cases, based on different factors and Geographical regions.

* + Visualization and Exploratory Data Analysis of world-wide cases of Covid-19 done using various datasets.
  + Executed several types of Clustering, made use of Boxplots and other data consolidation techniques for processing the datasets.
  + Implementation of distinct types of Graphs and charts such as Choropleth, Scatterplot, Line graph and Stream-

graph using D3 library.

* + Implementation of Interactive Dashboard with dynamic shifting and switching data based on User inputs.
  + Technology Used: Python, JavaScript, CSS, HTML.
  + Libraries Used: NumPy, Matplotlib, Pandas, D3.

# Scholarships

* **Edge AI** - Intel edge AI Scholarship December 2019 - March 2019
  + Received level-I Scholarship from Intel under Intel edge AI Scholarship at Udacity

# Technical Skills and Interests

**Programming Languages**: Python, Java, JavaScript

**Notable Libraries**: TensorFlow, Pandas, NumPy, Seaborn, D3

**Dev Tools**: VScode, Postman, IntelliJ, PyCharm

**Gen AI Tools**: Bard - Gemini Pro, ChatGPT-3.5, Dall-e, Microsoft Co-pilot

**CI/CD Tools**: Git, GitHub, Gitbash, Bit Bucket, Jenkins **Databases**: MongoDB, Postgres, Postgis, MSSQL,

**Operating Systems**: Windows, Linux

**Relevant Coursework**: Data Mining & Machine Learning, Data Visualization, Biological Inspired Learning, Database Management System, Software Engineering.

**Soft Skills**: Problem Solving, Self-learning, Presentation, Adaptability, Team Player, Team Leader, Mentor