

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, UK Online
 - Raised funds for Access bursaries as part of 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 2022
Nissan Digital India Trivandrum,India
 - Worked in many different projects covering different domains such as Data Science, PLM, Web development, Schedule optimisation and algorithm optimization applications.
 - Researched and Implemented various Proof of concepts.
 - Strong knowledge on creating Workflow, Life-cycle implementation and Agile Methodologies such as Kanban and Scrum.
 - Hands-on 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, that 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 many existing neural network architectures and their respective applications.
 - Developed a standard evaluation framework for comparison of these architectures.
 - Generated the data-sets 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 different types of Clustering, made use of Boxplots and other data consolidation techniques for processing the datasets.
 - Implementation of different types of Graphs and charts such as Choropleth, Scatterplot, Linegraph and Streamgraph 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, BitBucket, Jenkins

Databases: MongoDB, Postgre, Postgis, mySql, 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