

# Akarshan Jaiswal

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## EDUCATION

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- **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

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- **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

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- **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

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- **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

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**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