

Siddharth Sharma

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Work Authorisation: UK and India

WORK EXPERIENCE

The Honest Company.

Jan 2024 - Present

- Developed a plant disease detection Data Mining-Machine Learning project with **95-98% accuracy** using **Python** and **FastAPI**.
- Engineered **database architecture**, and APIs, contributing to securing seed funding for an agri-tech startup.

SRKMG Pvt. Ltd.

Sept 2019 - June 2021

- Led digitization of company records, improving data retrieval efficiency by 20%, while streamlining workflows for better project management.

IRT Digital Analytics Solutions Pvt. Ltd.

July 2018 – Aug 2019

- Lead Support and developer for East-West Seeds overseeing order tracking and inventory management systems.
- Upgrade from Classic to Lightning as a lone Salesforce developer to optimise UI/UX and achieve a 15% improvement in productivity. Improved client order tracking solutions with complete support for Apex, Visualforce, and Lightning.
- Created prototypes for "Zomato, India" and "Bira, India," which aided in gaining their business.

Appiro, Wipro Technologies

June 2017 – July 2017

- Developed a recruitment web application using Salesforce, connecting job seekers with recruiters and gaining hands-on experience in full-stack development.

EDUCATION

Heriot-Watt University

2022- 2023

MSc in Artificial Intelligence (2:1)

Edinburgh, UK

Key Learnings: Gained proficiency in genetic algorithms, behaviour-based and evolutionary robotics, multi-layered Artificial Neural Networks, and conversational agent design.

Narsee Monjee Institute of Management Studies

(SVKM-NMIMS), MPSTME

2014- 2018

BTech. Computer Engineering (2:1)

Mumbai, India

Key Learnings: Developed foundational knowledge in AI, data structures algorithm design, computer architecture, software engineering, and object-oriented programming.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, C#, .NET, SQL, NoSQL, Apex, Visualforce, Lightning, JavaScript, HTML, CSS, XML.

Platforms, Tools, and Software: Salesforce, Unity3D, Unreal Engine, Android Studio, Visual Studio, MongoDB, MySQL, Linux, Windows, VS Code, MATLAB, MS Office Suite, Google Sheets.

Methodologies: Machine Learning, Deep Learning, Computer Vision, OpenCV, GANs, Genetic Algorithms, Neural Networks, Robotics, Game Programming and Design, OOPs, Software Engineering, Data Structures and Algorithms Design.

PROJECTS

Arion Bright - Conversational Agent, Heriot-Watt University

May 2023 – Aug 2023

- Developed a chatbot named Arion Bright, designed by **Prompt Engineering**, to serve as an expert conversational agent for The Elder Scrolls V: Skyrim.
- Enabled users to engage in **meaningful conversations** with the chatbot using **voice** and **text**.
- Implemented **two distinct personalities** within the chatbot for enhanced user interaction and engagement.

Breast Cancer Detection Model, Heriot-Watt University

Sept 2022 - Dec 2022

- Implemented a configurable **multi-layer Artificial Neural Network architecture** from scratch using the Python libraries **numpy** and **tensorflow**.
- Trained the model on the UCI Breast Cancer dataset and investigated the impact of hyperparameters on binary classification. The hyperparameters investigated were Number of hidden layers, Number of neurons per hidden layer, and Learning rate

Cozmo Robot Demo, Heriot-Watt University

Sept 2022 - Dec 2022

- Implemented external APIs (**OpenCV** and **Google Mediapipe**) for the Cozmo robot. This allowed the robot to **see and track objects**, which was necessary for the memory game.
- Designed a **memory game for cognitive improvement in the elderly**, with results sent to the carer/doctor. The game was designed to be engaging and challenging, while also providing a valuable tool for tracking cognitive decline.
- Conducted an evaluation study to test the project's feasibility. The evaluation study showed that the game was effective in improving cognitive function in the elderly.