Siddharth Sharma

Email: siddharth.sharma.8000@gmail.com | Telephone: +44 7341632482 | LinkedIn: siddharth-sharma-19a059b4/
Work Authorisation: UK and India

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.
Final Thesis: Arion Bright - The Elder Scrolls V: Skyrim Conversational Agent (Prompt Engineering, Chat-bot with distinct personalities, Voice Interaction)
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.

WORK EXPERIENCE

The Honest Company.   **Jan 24 - Present**
*Position: Lead Developer (**Python, Machine Learning, API Development, Database Management**)*   *Edinburgh, UK*
- Developed a machine learning algorithm to predict plant health status using user-uploaded photos, diagnosing illnesses with 95-98% accuracy. FastAPI was used to integrate the model into a mobile app.
- Designed and built the entire database structure, including an admin panel for efficient data management.

SRKMG Pvt. Ltd.   **Sept 19 - June 21**
Position: Senior Engineer   *Jaipur, India*
- Developed and implemented integrated work processes to enhance efficiency and project management.

IRT Digital Analytics Solutions Pvt. Ltd.   **July 18 – Aug 19**
*Position: Associate Consultant (**Salesforce, Apex, Visualforce, Lightning, Web Development, Prototyping**)* *Mumbai, India*
- Developed end-to-end Apex solutions for Salesforce Sales Cloud as the primary developer. Salesforce systems were upgraded from Classic to Lightning, resulting in better UI/UX and increased user productivity.
- Created prototypes for "Zomato, India" and "Bira, India," which helped in client acquisition.

Appiro, Wipro Technologies   **June 17 – July 17**
*Position: Software Development Intern (**Salesforce Sales Cloud{admin}, Project Management.**)*   *Jaipur, India*
- Utilised Salesforce Sales Cloud to create a user-friendly platform and optimize recruitment procedures for an employer and job seeker app as a solo project.

PROJECTS

Arion Bright - AI-Powered Conversational Agent (ChatGPT API, Prompt Engineering, Analysis Techniques)
- Designed a multi-modal (speech and text) AI chat agent with a Skyrim theme that has unique personalities. Extensive qualitative and quantitative examination yielded 95%-98% accuracy in domain-specific knowledge representation.

Game Development Projects (Unity3D, C#, 2D & 3D Game Development, Game Design)
- **Joe's Adventure**:Created a game with intricate movement systems and difficult stages based on Prince of Persia and Mirror's Edge. iteratively tested with an emphasis on user experience.
- **Pokémon-inspired 2D RPG Game**: Built a turn-based role-playing game from the ground up, adding combat sequences, AI for the enemies, and Pokémon switching abilities.

Cozmo Robot Demo (Python, OpenCV, Google Mediapipe, Cozmo SDK)
- Developed a memory game to help older people's cognitive abilities and implemented object tracking using OpenCV and Google Mediapipe. A feasibility study verified the design of a data-sharing system for monitoring game results.

Breast Cancer Detection Model (Python, NumPy {for data manipulation only}, Neural Networks)
- Designed an ANN from scratch that classified breast cancer with 95% accuracy using the UCI dataset. Emphasis on fine-tuning hyperparameters and thorough experimental analysis.