# **Arpit Sharma**

**Phone**: +44 7882 113088 | **Email**: <mailto:Arpit.Sharma@Tutamail.com>| **Address** B1, Birmingham, UK | **GitHub** [github.com/ArpitSharmaDev](https://github.com/ArpitSharmaDev) | **LinkedIn**: <linkedin.com/in/Sharma-Arpit> **Portfoliio** [ArpitSharmaDev.Github.io/portfolio](https://arpitsharmadev.github.io/portfolio/)

## Education:

### Oct 2020 - Oct 2021: De Montfort University, MSc Intelligent Systems and Robotics (1st)

Modules Included: Computational Intelligence Optimization, Applied Computational

Intelligence, Natural Language Processing, Artificial Neural Networks and Deep

Learning, Intelligent Mobile Robots, Research Methods, Mobile Robots, Fuzzy Logic

**MSc. Thesis Project - pH monitoring using “Artificial Intelligence on Edge” with state of art, “TinyML” and ESP32 microcontroller, “Internet of Things”, a dedicated mobile app, and emergency email alerts, in a physical prototype of a hydroponic system**

### Aug 2012 – Aug 2017: Manipal Institute of Technology, B.S Electrical and

### Electronics (2:2)

Modules Included: Problem Solving Using Computers, Electrical Machinery, Digital System Design, Analog System Design, Communication Systems, Signals And Systems, Analog Systems Design, Modern Control Theory, Power Electronics, Soft Computing.

## Work Experience:

### October 2023 - Current: Quality Engineer, Task Engineering Solutions

### Limited

### July 2022 – January 2023: Research Assistant in Machine Learning and Net-Zero process, De Montfort Expertise Limited:

* Conduct literature reviews
* Collect and analyze data
* Develop machine learning models and optimize them to control the system.
* Provide ready access to all experimental data for the faculty researcher and/or supervisor
* Supervise undergraduate students working on the research project (maintaining records on assignment completion, acting as liaison/mediator between the undergraduate students and the faculty researcher)
* Attend project meetings
* Compile data for progress reports

**Key Skills: Python, Data Analysis, Machine Learning, Data Collection, Literature Review, Experimental Data Management, Project Coordination, Report Compilation, Software Development Best Practices, Web-Hosted Platforms, Leadership**

### September 2019- January 2020: Assistant Engineer, Narayn SonaTech Infrastructure Pvt Ltd

## Certifications:

### Machine Learning Specialization, Stanford University & DeepLearning.AI, November 2024

Courses Completed:

* Supervised Machine Learning: Regression and Classification
* Advanced Learning Algorithms
* Unsupervised Learning, Recommenders, Reinforcement Learning

**Prompt Engineering for ChatGPT, Vanderbilt University, October 2024**

**Generative AI and Model Selection, Vanderbilt University, October 2024**

## Personal Projects:

* [Product Recommender System Using OpenAI Text Embedding](https://github.com/ArpitSharmaDev/Product-Recommender-System-Using-OpenAI-Text-Embedding)
* [Fake News Detection System](https://github.com/ArpitSharmaDev/Fake-News-Detection-System)
* [Predict Ad Clicks Using Logistic Regression and XGBoost](https://github.com/ArpitSharmaDev/Predict-Ad-Clicks-Using-Logistic-Regression-and-XG-Boost)

## Patents:

* "An Apparatus and Method of Time-Based Password Switching by Tapping on a Metallic Surface", Patent No. 511936, Granted, February 2024 [See Patent](https://iprsearch.ipindia.gov.in/publicsearch)
* "Robotic Gardening Device" (Under final examination), Application No. 201911030291, (Under final examination, 2019) [See Patent](https://iprsearch.ipindia.gov.in/publicsearch)

## Publications:

"A Machine Learning Method on a Tiny Hardware for Monitoring and Controlling a Hydroponic System." (Under review, 2021)

## Skills and Interests:

|  |  |  |
| --- | --- | --- |
| **Programming Languages** | **Machine Learning** | **Tools & Software** |
| Python | TensorFlow | PCB Design |
| SQL | PyTorch | ROS |
| C# |  | MS Office Suite |
| MATLAB |  | LaTeX |
| Java |  |  |
| Dart |  |  |

References available upon request