# Mohamed Mostafa Ahmed Shaheen

18 Northfield Drive
EH8 7RP
0044-7513630504
linkedin.com/in/mohamed-shaheen-128263218
mohamedshaheen20.ea@gmail.com

## Personal Summary

Motivated researcher with a solid foundation in machine learning and artificial intelligence, specializing in signal processing, computer vision, and generative AI. Building on an award-winning MSc project in signal processing, I am eager to deepen my expertise and contribute to advanced research through a Ph.D. or EngD opportunity at Strathclyde University. Committed to pushing the boundaries of innovation, I look forward to leveraging my skills in a rigorous research environment.

## Educational History

**MSc Machine Learning and Deep Learning (Hons) | First Class Honours with Distinction | University of Strathclyde**
*September 2023 – August 2024*

- Awarded the George Matich Memorial Award for an outstanding MSc project in signal processing, communications, and machine learning, with relevance to national defense and security.

**BSc Computer Science (Artificial Intelligence) (Hons) | First Class Honours with Distinction | University of Hertfordshire**
*September 2020 – September 2023*

- Honored with the Gold Go Herts Award and the University Award for academic excellence

**Foundation Year in Technology | Hertfordshire International College**
*September 2019 – September 2020*

**Sidi-Gaber Language School for Boys (S.L.S.), Alexandria, Egypt**
*Graduated August 2019*

## Research Experience

**MSc Project, University of Strathclyde, Glasgow, UK, May 2023 – November 2024**
Researched the feasibility of overcoming technology limitations in power grids using AI specifically in the compensation of both Hysteresis and Aging/De-Aging phenomenon in Optical Sensors.

**Smart Voice Project, University of Strathclyde, Glasgow, UK, September 2023 – March 2024**
Lead the AI research focused on developing a machine learning-based mobile app and cloud infrastructure for non-invasive analysis of voice recordings to assess diseases such as recurrent respiratory papillomatosis (RRP) in resource-limited settings.

- Winner of the Vertically Integrated Projects for Sustainable Development (VIPer Pit) Competition for innovative project design and implementation.

## Skills

**Programming Environments:** Experienced in working with various programming frameworks and environments, including MATLAB, PyCharm, Visual Studio Code, Django, Firebase, and more.

**Full-Stack Web Development:** Proficient in creating dynamic web applications using HTML5, CSS, JavaScript, React, Node.js, and React 3D. Skilled in both front-end and back-end development, leveraging databases such as SQL and NoSQL.

**Data Analysis & Signal Processing**: Skilled in analyzing complex data sets and implementing signal processing techniques to derive meaningful insights and improve model efficiency.

**Machine Learning & AI:** Developed advanced machine learning and deep learning solutions from scratch using TensorFlow, PyTorch, and Keras. Contributed to research projects, including the Smart Voice project at the University of Strathclyde, Face Recognition Applications and applied AI to optimize hardware limitations in power grids.

**Software Development:** Capable of designing and building innovative software solutions, including mobile apps, desktop applications, and custom-built systems that solve complex problems.

**Research & Innovation:** Actively participated in research-driven projects, demonstrating a strong ability to think critically and develop forward-thinking solutions that push technological boundaries.

**Communication Skills:** Adept at engaging with customers and colleagues alike, fostering clear, professional communication in both technical and non-technical settings. Proven ability to explain complex concepts in a simplified manner, ensuring effective understanding and collaboration across teams.

**Teamwork & Collaboration:** Experienced in working within diverse teams across various projects, contributing to successful outcomes through cooperation and shared problem-solving. Thrives in collaborative environments, valuing team input while also taking initiative to lead when necessary.

**Languages:** Fluent in English and Arabic.

## Employment History

**Technology Intern at Bright Network**
*July 2021 – August 2021*

***References will be available upon request***