

ASWIN SUBRAMANIAN MAHESWARAN

(+34) 696 085 856 | sm.aswin21@gmail.com | [GitHub](#) | [LinkedIn](#) | Madrid, Spain

Eligible to sign internship agreement via IE University

SUMMARY

Enthusiastic and hard-working computer science student with deep passion for machine learning, Generative AI and Robotics.

EDUCATION

IE UNIVERSITY (IEU)

Bachelor's in Computer Science & Artificial Intelligence

Madrid, Spain

Expected: July 2026

- GPA of 8.78/10.00 and awarded IE Junior Advisory Board Award (Merit Scholarship of 80%)

HINDUSTAN INTERNATIONAL SCHOOL

British Diploma (A Levels)

Chennai, India

Graduated: June 2022

- A Levels: Mathematics(A), Chemistry(A), Physics(B), Biology(B), and English Linguistics(C)

PERSONAL PROJECTS (October 2023 - Present)

- Peppers and Emoji - Currently Developing an Emotion Recognition project based on Deep Learning ([Link](#)):** Aims to break communication barriers between individuals with and without Autism focusing on Computer Vision and using pepper (*a semi-humanoid robot at our university's robotics lab*) for interaction. (Tech: OpenCV, Deep Face Algorithm, Face Recognition, Pandas).
- Borat - Built an Interpreted Borat-inspired (*original movie*) programming language ([Link](#)):** Developed a custom programming language, including lexer, parser, and AST components, using C and regular expressions. Demonstrated skills in compiler construction and language design, with practical application in data processing and pattern recognition. (Tech: C, Tokenizer)
- Developed Asteroids, Arcade Game ([Link](#)):** Implemented a Python-based version of the classic game using Hash Maps and Matrices for layout representation and recursive algorithms for efficient gameplay. Applied skills in game development and algorithmic problem-solving. (Tech: Python, Pygame)
- Fiesta – Built the Backend for website focused on nightlife in Madrid ([Link](#)):** Connected to MySQL and MongoDB databases in Django Framework and scraped data using websites and API. (Tech: Python, MySQL, MongoDB, Django, Web-Scraping).
- Water Distribution Plant Simulation Application ([Link](#)):** Connected to Azure IOT Hub for automated process and Streamlit services for messages on opening/closing of water valves based on the sensors. (Tech: Python, and Azure Cloud Services)

RELEVANT EXPERIENCE

IE ECON DATA LAB

Project Lead

Madrid, Spain

January - June 2022

- Developed prediction models to assess the economic and social impacts of forest certification on over 1000 Spanish companies, utilizing extensive data analysis with Python and R. (Tech: Exploratory Data and Regression Analysis)

JUNIOR TECH (CLEVER HARVEY)

Member

Chennai, India

May – July 2021

- Online Internship specialized in UX Design, contributing to project which developed a frontend website for Infinity Cars enhancing user experience and interface while leveraging existing data from Company with Clever Harvey. ([Link](#)) (Tech: Flutter Flow, HTML)

CONTRIBUTION AND EXTRACURRICULAR WORK

- IE Sustainability Datathon:** Collaborated on 7-day water consumption prediction using advanced ML techniques for Acciona company in the city of Villarubia. ([Link](#)); *Top 5 Finalists - Finalist Certificate* (Tech: Data Analysis, Feature Engineering and ML Models - SkForecast, Random Forest and Decision Trees, Gradient Boosting using Scikit-learn) (October 2023)
- IE AI Hackathon:** Collaborated on building LLM's using Open AI API for Foqum Analytics; *Top Ten* (November 2023)
- IE Venture Lab:** Selected participant qualified for semi-finals, developed an energy-harvesting sole (of shoe) prototype to charge devices via footsteps. Winners poised to secure investor backing. ([Link](#)) (September 2023)
- IE Robotics Lab:** Selected as Developer to contribute to projects, research on Robotics and AI. (October 2023 – Present)
- IE Coding Club:** Organize coding workshops and curated content for member newsletters. (September 2022 – Present)
- IE Catalyst Impact Lecture Series Course ([Link](#)):** Insights in emerging technology trends from leading technology ventures.

TECHNICAL SKILLS AND PROFESSIONAL DEVELOPMENT

- Languages and Frameworks:** C (basics), OpenCV, Python, R, Scikit-learn and Django.
- Tools:** Azure, AWS, IBM SPSS, GIT, MySQL, Oracle VM and Ubuntu.
- Deep Learning Specialization by Andrew Ng (3/5):** *Learning about CNN's and gaining advanced insights.* ([Link](#))
- Introduction to AI (IBM) ([Link](#)) and Introduction to Big Data (UC San Diego) ([Link](#))**

ADDITIONAL INFORMATION

- Languages:** English (Fluent), Tamil (Native), Gujrati (Native), Hindi (Fluent), Spanish (Intermediate).
- Volunteer Work:** Served as an English Tutor with Chennai Mentors, teaching children spoken English for 2 months. (2021)
- Interests:** Sports, writing and movies.