

Mohammed Emaan

+971 50 249 8038 | mohammedemaan58@gmail.com | [LinkedIn](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Final-year CS Engineering student at BITS Pilani Dubai Campus with a comprehensive foundation in modern computing technologies. Professionally, leveraging practical industry experience in digital transformation, process optimization, workflow automation, web development, IT support and networking, and retail workflows, combined with proven leadership, problem solving and communication capabilities gained through universities student council roles and athletic captaincy. Actively looking to deliver impactful solutions and support in software development, automation and IT sector.

SKILLS

Programming Languages | Python, HTML, CSS, MySQL, PostgreSQL

Frameworks and Libraries | Flask, TensorFlow, PyTorch, Scikit-Learn, PIL, Pandas, NumPy, Matplotlib

Data Analysis | Excel, Power BI

Developer Tools | Git, GitHub, Visual Studio Code, Microsoft Power Apps, Flask Framework

Industry Knowledge | ERP Optimization, Workflow Automation, Web Dev, Low-Code Digital Transformation, IT Support and Networking, Retail Workflows, CRM

Interpersonal Skills | Leadership, Critical Thinking, Mentoring, Communication, Problem Solving, Management, Teamwork, Adaptability

EDUCATION

Bachelor of Engineering in Computer Science, CGPA – 7.38

2022 - Present

Birla Institute of Technology and Sciences

Dubai, UAE

- **Computer Science Coursework** - OOPs, DS, DSA, DBMS, CA, OS, TOC, CN, CC, DAA
- **Electives Coursework** - Data Science, Machine Learning, Data Mining, Cryptography, Neural Networks, Fuzzy Logic, LLMs, Gen AI
- **Management Coursework** - Technical Report Writing, Principals of Management, Operations Management, Organizational Psychology

Indian School Certificate Examination (class 12), Grade – 87%

2021

Indian Certificate of Secondary Education (class 10), Grade – 91%

2019

Bishop Cotton Boys' School

Bangalore, India

PROFESSIONAL WORK EXPERIENCE

Digital Transformation and IT Support Intern - Internship

January 2026 – Present

Casamia

Dubai, UAE

- **Low-Code Automation** – Debugged database management applications, primarily Microsoft power apps used to automate company's processes.
- **Webpage Development** – Developed a user efficient frontend to support efficient document consolidation using python-flask based framework.
- **IT and Networking Support** – Assisted with basic IT operations and learnt networking and security basics at the industry level.
- **Digital Transformation and ERP Optimization** – Supported smooth ERP migration and IT operations by efficiently managing user queries and troubleshooting basic networking issues.
- **Retail Workflows** – Understood workflows such as sales and procurement, etc, which was crucial in assisting the UAT processes during the ERP migration.

Robotics Teaching and Programming Assistant – Internship

Jun 2024 – Aug 2024

Unique World Robotics

Dubai, UAE

- **Spearheaded** technical presentations and conducted interactive workshops in Robotics, Coding and STEM Education for diverse audiences.
- **Developed** effective technical, instructional, and project management skills in a hands-on and collaborative environment.

WORK EXPERIENCE

Student Council Member – Student Representative

Sep 2024 – Sep 2025

Birla Institute of Technology and Science

Dubai, UAE

- **Represented** student interests and communicated issues and recommendations to the university's administration.
- **Spearheaded** the planning and execution of large-scale events alongside leading and motivating student volunteers to deliver high-quality events o strict timelines.

Coordinator of Volunteers – Volunteer Program

Sep 2024 – Oct 2024

NASA Space Apps Challenge

Abu Dhabi, UAE

- **Managed** volunteer communications, logistics, and technical support to ensure smooth event conduct.

NOTABLE PROJECTS

- **Excel-Image Consolidator | Deployed User Interface** [DEPLOY](#)
 - Developed an end user interface for Casamia to consolidate images into excel files standardizing catalogue formats across all departments.
 - Ensured 100% accuracy in image to product code mapping.
 - Reduced manual entry time from hours to minutes, efficient and feasible for particularly the retail sector.
- **Data Obfuscation and Security: Audio Steganography | Deployed User Interface** [DEPLOY](#)
 - Developed an interface to encode data into an audio file using phase encoding and multi algorithm approach consisting of AES and CHACHA20.
 - Achieved 100% accuracy in encryption and 89% accuracy in audio steganography.
- **Deep Learning | Model Based Project**
 - Implemented a deep learning based novel experimental architecture (Sine-Net) to segment nuclei for H&E images with a testing accuracy of 87.01%
 - Outperformed the current existing U-Net architecture's testing accuracy by nearly 5%.
 - Publication is in process for the novel Sine-Net Nuclei Segmentation Model.
- **Data Science | Model Based Project** [DEPLOY](#)
 - Developed a deep neural network model to recognise custom fonts with a testing accuracy of 78%.
 - Generated and pre-processed a custom dataset consisting of 40,000 images of letters and numbers from 167 different fonts.
- **Machine Learning | Model Based Project** [DEPLOY](#)
 - Developed a machine learning model to classify music genre using multiple algorithms.
 - This model was an approach to demonstrate ML skills by training different models and testing them on the prediction task.
- **Artificial Intelligence | Model Based Project**
 - An intelligent, context-aware conversational AI powered by Gemini and Pinecone that translates complex UAE financial regulations into clear, everyday guidance.
 - Currently under development with promising initial results.
- **Is Blockchain in Supply Chain a Real Game Changer | Research Project**
 - Explored the potential of blockchain technology to transform supply chain management.
 - Focused on its impact on transparency, efficiency, and security particularly in the context of companies listed on India's Nifty50 index.

Mohammed Emaan

+971502498038 | mohammedemaan58@gmail.com | [LinkedIn](#) | [GitHub](#)

NOTABLE CERTIFICATIONS

- Data Science and Data Analytics
- Microsoft Power Apps – Plan Designer Applied Skills (Level 1 and Level 2)
- SQL and PostgreSQL for Data Analysis
- Flask Framework for Web Development – Python, HTML and CSS
- Procurement, Supply Chain and Operations Management
- Six Sigma White Belt Certification