

# Mohammed Emaan

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## 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

**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.

**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 on 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.

## 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