Mohammad Ammar

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EDUCATION

- **Vellore Institute of Technology** — Bhopal, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 9.1 — *2022 – 2026*

- **St. Patrick's Higher Secondary School** — Asansol, India
  ICSE: 94.6% — ISCE: 88.2% — *2018 – 2021*

SKILLS

- **Programming Languages** Python, JavaScript, Java, SQL
- **Cloud Platforms** AWS, Google Cloud Platform, Microsoft Azure, IBM Cloud
- **Frameworks and Libraries** Flask, Django, Streamlit, Tensorflow, React, Node.js, Langchain, Huggingface
- **Tools and Technologies** MongoDB, Docker, GitHub, Azure, OpenAI.

PROJECTS

- **MindSync – ADHD Detection via fMRI (Sep 2024 – Nov 2024)**:

  - Designed and implemented a deep learning framework that seamlessly integrates spatial and temporal fMRI scan data, reducing clinical diagnostic time by **40%** while maintaining reliability.
  - Engineered a hybrid Conv3D-LSTM neural network architecture, achieving a consistent **82% validation accuracy** on complex 3D MRI brain scan datasets for ADHD detection.
  - Optimized data ingestion pipelines and streamlined model training workflows, successfully decreasing overall data processing and model runtime by **30%**.

- **CraftConnect – Local Services Platform (Feb 2025 – May 2025)**:

  - Built a scalable, full-stack platform on the **FReMP stack** connecting users with verified professionals, increasing booking rates by **45%** through an enhanced, modernized UI/UX.
  - Integrated an **agentic LLM-powered chatbot using IBM Watsonx**, orchestrated via LangFlow, enabling users to perform real-time task executions through dynamic API calls to the backend.
  - Implemented secure **JWT-based authentication**, MongoDB-powered data management, and a seamless payment portal, optimizing system performance for **500+ concurrent users**.

- **DataVista – Cloud Data Analytics Dashboard (May 2025)**:

  - Designed and deployed a cloud-based interactive dashboard application for analyzing and visualizing key business performance indicators using large-scale datasets from multiple sources.
  - Automated complex data extraction and transformation workflows through BigQuery and SQL, reducing the need for manual reporting efforts by **70%**, and ensuring timely, accurate analytics delivery.
  - Delivered real-time insights and dynamic visualizations to business teams via an intuitive cloud-hosted dashboard, empowering data-driven decision-making across departments.

EXPERIENCE

- **Indian Space Lab - Intern** — *Dec 2024 – Jan 2025*

  - **Satellite Data Analysis**: Developed a framework for automated quality control of satellite data, detecting over 1,000 anomalies per month and ensuring data integrity for downstream applications.

INDUSTRIAL INTERNSHIP AND CERTIFICATION

- Microsoft Certified: Azure AI Fundamentals (Jun 2025)
- AWS Solutions Architect - Associate Internship Program (May 2025)
- GEN AI Using IBM Watsonx, IBM (May 2025)
- Google Cloud Data Analytics, Google (Apr 2025)