

# Mohammad Ammar

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## EDUCATION

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- **Vellore Institute of Technology**

*Bachelor of Technology - Computer Science and Engineering; CGPA: 9.1*

Bhopal, India

2022 – 2026

- **St. Patrick's Higher Secondary School**

*ICSE: 94.6% — : 88.2%*

Asansol, India

2018 – 2021

## SKILLS

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- **Programming Languages:** Python, JavaScript, Java, SQL, C#

- **Cloud Platforms:** AWS, Google Cloud Platform, Microsoft Azure, IBM Cloud

- **Frameworks and Libraries:** Flask, Django, Tensorflow, React, Langchain, Huggingface, Selenium

- **Tools and Technologies:** Linux, MongoDB, CI/CD, Docker, Kubernetes, GitHub, Azure, Redis

## PROJECTS

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- **MindSync – Early ADHD Detection using Deep Learning (GitHub):**

- Constructed deep learning framework integrating spatial-temporal fMRI data processing, accelerating clinical diagnostic workflows by **40%** while maintaining diagnostic accuracy standards.
- Combined hybrid Conv3D-LSTM neural architecture achieving consistent **82% validation accuracy** on complex 3D brain scan datasets for automated ADHD pattern recognition.
- Optimized data ingestion pipelines and model training workflows, reducing overall processing time and computational overhead by **30%** through efficient resource utilization.

- **CraftConnect – Local Services Platform (Link) (GitHub):**

- Engineered a scalable, full-stack platform on the **FReMP stack** connecting users with verified professionals, increasing reservation conversion rates by **45%** through optimized user experience design.
- Integrated **agentic LLM-powered chatbot using IBM Watsonx**, orchestrated via LangFlow for real-time task execution through dynamic API orchestration and backend system integration.
- Deployed secure **JWT-based authentication** with MongoDB data management and seamless payment processing, supporting **500+ concurrent users** with zero downtime performance.

- **ASTRA – AI-Powered Applicant Screening & Talent Recruitment Assistant (Link) (GitHub):**

- Architected an intelligent recruitment automation system using **LangChain and Gemini LLMs**, streamlining candidate screening workflows and reducing manual review time by **75%**.
- Implemented automated resume parsing with structured JSON extraction and MongoDB Atlas integration, processing **100+ candidate profiles** with 95% accuracy for data standardization.
- Developed a context-aware interview chatbot with multi-turn conversation capabilities, allowing recruiters to conduct **scalable technical assessments** and generate comprehensive candidate evaluation reports.

## EXPERIENCE

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- **PG-AGI – AI/ML Intern**

*Aug 2025 – Present*

- **Helped Build Full AI Solutions:** Worked side-by-side with developers to set up the entire process for AI projects, from organizing and cleaning the initial data to training the best model and getting it ready for use.
- **Turned Research into Real Tools:** Took cutting-edge AI ideas and adapted them into practical, working solutions that fit PG-AGI's goals, helping to create new internal products that boost business capabilities.
- **Supported Production Deployment:** Engineered scalable end-to-end pipelines effectively handling data automation and backend system integration. Utilized CI/CD workflows to streamline deployment cycles, reducing production rollout time.

## CERTIFICATIONS & TECHNICAL TRAINING

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- AWS Certified Machine Learning Engineer – Associate (Aug 2025)
- Microsoft Certified: Azure AI Fundamentals (Jun 2025)
- GEN AI Using IBM Watsonx, IBM (May 2025)
- Google Cloud Data Analytics, Google (Apr 2025)