

# Rifaath Mohamed Ameen

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## PROFILE

Master's student in AI who enjoys learning new things and figuring stuff out along the way. Always up for a challenge, and excited to grow by exploring different ideas and working with others.

## EDUCATION

- FAU Erlangen-Nürnberg** Bavaria, Germany  
*M.Sc. in Artificial Intelligence; GPA: 1.4* Oct. 2024 – Present
- NMAM Institute of Technology** Karnataka, India  
*B.E. in Artificial Intelligence and Machine Learning; CGPA : 9.71 / 10.00* Oct. 2020 – Sep. 2024

## EXPERIENCE

- Arabian Calibration Devices Rep. Co. LLC.** Sharjah, UAE  
*IT Audit Intern* Jul. 2023 - Aug. 2023
  - Interviewed 10+ department heads and staffs to identify workflow inefficiencies and proposed AI-based automation solutions
  - Provided recommendations for enhancing security measures, adopting AI and IoT solutions, and improving overall efficiency.
- Factweavers Technologies Private Limited** Kerala, India  
*AI Intern – Automation & Generative AI* Jun. 2023 - Jul. 2023
  - Developed an API endpoint utilizing generative AI to automate business processes involving content generation.
  - Conducted extensive research and testing on multiple pre-trained LLMs to evaluate their performance and limitations.
  - Enhanced content retrieval efficiency by integrating FAISS indexing, reducing search time by 25%

## RESEARCH & PROJECTS

- Patent: ACCENDIA - Research Project:** Aug. 2023 - Apr. 2024
  - Implemented a multi-document query system using RAG and LangChain with multi-LLM support
  - Patent filed and published** at the Indian Patent Office (Ref No.: 202441036620, Published: 09 May 2024)
  - Awarded "Best Project of the Year" for the institution
- Heart Rate Detection using Motion Magnification:** Mar. 2023
  - Built a motion magnification system to detect heart rate from video, improving remote health monitoring
- Ship Segmentation and Detection using Satellite Imagery:** Nov. 2022
  - Automatic detection of ships from satellite image to handle illegal infractions at sea .
  - Built an R-CNN-based model to detect and segment ships in satellite images, aiding in maritime surveillance
- IoT Enabled Smart Attendance Tracking using RFID Module:** Nov. 2022
  - Designed an RFID-based automated attendance system with Arduino, MySQL, and PHP for real-time tracking
- Reverse Image Search Using CNN:** Nov. 2022
  - Developed a CNN-powered search engine using ResNet50 to retrieve visually similar images

## TECHNICAL SKILLS

Languages	Python, C++, C, Java, R, AppScript
Databases	MySQL, PostgreSQL, MongoDB
ML/AI	Tensorfow, Scikit-learn, Natural Language Tool Kit, OpenCV
Data Analytics	Pandas, Numpy, Matplotlib, Plotly, MySQL, Beautiful Soup
Miscellaneous	Git, Selenium, Linux, Bash, PowerShell, FAISS, OpenAI API

## ACHIEVEMENTS

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- **Selected for the Digital Tech Fellow** program at FAU, one of the **21** selected from 200 applicants.
- **Best Project of the Year** for *ACCENDIA*.
- **Invited Resource Person** for Faculty Development Program on *LangChain, OpenAI, and the Future of Computer Vision & ML*.
- **Finalist** – HackOverflow 1.0 (National Hackathon).
- **2nd Place** – Byte Battle (ACM NMAMIT & HackerEarth Hub NMAMIT).
- **2nd Place** – MATRIX Coding Contest (CSI NMAMIT).
- **2nd Place** – NMAMIT Circuit 03 Hackathon (ACM NMAMIT & HackerEarth Hub NMAMIT).
- **3rd Place** – WKND.HACK (IEEE STB 34551, NMAMIT).
- **Three-time Winner** – NMAMIT Coding Contest.
- **Best Working Model** – Science Exhibition, NIMS Dubai.

## LEADERSHIP

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| <ul style="list-style-type: none"><li>• <b>People &amp; Culture Executive</b><br/>Oct. 2024 – Present<br/><i>START Nuremberg</i></li><li>• <b>Student Placement Overall Head</b><br/>Sep. 2023 – Aug. 2024<br/><i>Dept. of Placements &amp; Training, NMAMIT</i></li><li>• <b>Branch Captain</b><br/>Sep. 2023 – Present<br/><i>NMAM Institute of Technology, Nitte</i></li></ul> | <ul style="list-style-type: none"><li>• <b>Secretary</b><br/>Oct. 2022 – Sep. 2023<br/><i>NMAM Institute of Technology, Nitte</i></li><li>• <b>Third Year Representative</b><br/>Dec. 2022 – Sep. 2023<br/><i>HackerEarth Hub, NMAMIT</i></li><li>• <b>House Captain</b><br/>2019 – 2020<br/><i>Gulf Asian English School</i></li></ul> |
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## MISCELLANEOUS

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**Languages:** Malayalam (Native), English (C1), German (Beginner)

**Hobbies:** Driving, Photography, Trekking, Track-racing