

ARYA SUNEESH

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🔧 TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++, Java, Shell, MySQL

Developer Tools: VS Code, Cursor, Android Studio, Vercel, Netlify

Technologies: Linux, Git, Pandas, Numpy, Matplotlib, Streamlit, React, scikit-learn, Flask, Django, Docker

Frameworks: PyTorch, TensorFlow, LangChain, Pydantic, FastAPI, LlamaIndex, Hugging Face Hub

Soft Skills: Adaptability, Critical Thinking, Leadership, Self-Motivation, Perseverance, Communication

🎓 EDUCATION

Indian Institute of Information Technology, Kottayam

December 2021 – May 2025

B.Tech. Computer Science and Engineering — CGPA - 9.64/10.00

Kerala, India

Our Own English High School, Sharjah

April 2019 – July 2021

Class XII (CBSE) Performance - 98.2%

Sharjah, UAE

🏆 ACHIEVEMENTS

- Selected as **one of the 16** participants of the highly competitive **MCQST Summer Bachelor Program 2025** organized by Munich Center for Quantum Science and Technology
- Attained **3rd rank on Task 7 : Multilingual & Crosslingual Fact-Checked Claim Retrieval of SemEval 2025** and **3rd Rank on Task 2 : Claims Extraction & Normalization of CheckThat! Lab, CLEF 2025** as a member of **TIFIN India**
- Earned the Advanced badge on completion of the **IBM Quantum Challenge 2024**
- Completed **Womanium Quantum+AI Program 2024** with a scholarship, completed courses include : **PennyLane QML, QBronze, QNickel, Quantum Hardware, Artificial Intelligence**
- Awarded the **DAAD-WISE Scholarship (2024)**: Selected as one of 250 students for the prestigious scholarship, enabling a research internship at **UdK Berlin + Einstein Center Digital Future (ECDF)**
- Received **100% scholarship** upon being selected as **one of the 250 scholars** of Cohort 4 of **Women Engineer Program**, conducted by **NSE Talentsprint** and supported by **Google**.

💼 EXPERIENCE

TIFIN RM 🔗

May 2025 – Present

NLP Engineer

Bangalore, Karnataka, India

- * Engineered a semantic cache upgrade by migrating to MPNet embeddings, achieving latency reduction of over 2.5 secs
- * Systematized resolution of production bugs, addressing critical issues in context handling, response generation, and intermittent query failures to enhance system stability.
- * Expanded system capabilities to process new financial query types (SIP/STP/SWP) and optimized response generator through prompt engineering.
- * Directed data integrity initiatives, including data anonymization and misclassification correction, and pioneered research into novel LLM evaluation techniques to bolster model reliability.

Walther-Meißner-Institut 🔗

July 2025 – August 2025

Student Researcher

Munich, Bavaria, Germany

- * Developed shot-based simulation framework for realistic quantum measurements, implementing post-selection techniques to enforce gauge symmetry constraints and prepared deployment on 17-qubit superconducting chip
- * Analyzed optimization landscapes under varying shot noise conditions, demonstrating how measurement statistics affect VQE performance and convergence in practical quantum devices
- * Collaborated with international research team of 6 scientists on quantum algorithm development, contributing to experimental quantum physics research at a world-class quantum computing facility

TIFIN RM 🔗

January 2025 – April 2025

AI Research Intern

Bangalore, Karnataka, India

- * Led development of semantic caching system for RM's client diagnostics module, reducing query latency improvement of 60-70% and implementing cache optimization across 57 distinct queries
- * Optimized response generation and token usage in LLM agents, establishing data filtering protocols and streamlining portfolio data processing
- * Spearheaded latency optimization initiatives for client diagnostics module, addressing jq-command mismatches to enhance performance across advisor accounts with over 500 clients

MyFi by TIFIN 🔗

October 2024 – December 2024

AI Research Intern

Bangalore, Karnataka, India

- * Conducted in-depth research on state-of-the-art models for conversational AI, evaluating their performance and applicability to MyFi's mobile application.
- * Contributed to the multilingual expansion of the MyFi application by integrating Indic languages.
- * Enhanced support for colloquial conversational tones to improve user engagement and accessibility.

Universität der Künste Berlin/ECDF Berlin 🔗

May 2024 – July 2024

Research Intern (DAAD-WISE Scholar)

Berlin, Germany

- * Collaborated with Prof. Dr. Daniel D. Hromada (Juniorprofessor for Digital Education at Einstein Center Digital Future) on the 'Reading Primer' project in a team of six.
- * Focused on developing and programming speech recognition models for the device's learning (HMPL) modules.
- * Engineered prototype 'Fibel 4', enhancing both hardware and software capabilities.
- * Gained proficiency in and demonstrated the use of [udk.ai](#)'s personalized NLP models.

RESEARCH PUBLICATIONS

- **QCNN-MFND: A Novel Quantum CNN Framework for Multimodal Fake News Detection in Social Media**
Arya Suneesh, Balasubramanian P
Accepted in Proceedings of Quantum Natural Language Processing and Artificial Intelligence (QNLP-AI 2025), Withdrawn; Accepted at IEEE Quantum Artificial Intelligence (IEEE QAI 2025)
- **TIFIN India at SemEval-2025: Harnessing Translation to Overcome Multilingual IR Challenges in Fact-Checked Claim Retrieval**
Prasanna Devadiga, Arya Suneesh, Pawan Kumar Rajpoot, Bharatdeep Hazarika and Aditya U. Baliga
Proceedings of the 19th International Workshop on Semantic Evaluation (SemEval 2025), Vienna, Austria, July 2025
- **TIFIN at CheckThat! 2025: Reasoning-Guided Claim Normalization for Noisy Multilingual Social Media Posts**
Manan Sharma, Arya Suneesh, Manish Jain, Pawan Kumar Rajpoot, Prasanna Devadiga, and 5 more authors
Accepted for Oral Presentation at the Conference and Labs of the Evaluation Forum (CLEF 2025), Barcelona, Spain, September 2025
- **Multilingual Conversational AI for Financial Assistance: Bridging Language Barriers in Indian FinTech**
Bharatdeep Hazarika, Arya Suneesh, Prasanna Devadiga, Pawan Kumar Rajpoot, Anshuman B Suresh, Ahmed Ifthaquar Hussain
Accepted for Poster Presentation at the FinAI Workshop of Conference on Information and Knowledge Management (CIKM) 2025

★ EXTRACURRICULAR

Community Lead, ML Industry

June 2025 - Present

Cohere Labs Open Science Community

- * Spearheaded the 'ML Industry' program to bridge the gap between academic research and industrial application in frontier ML.
- * Organized a series of talks, workshops, and panels with leading researchers to equip early-career professionals for success in industrial ML research.

Artificial Intelligence and Data Science Lead

October 2023 - September 2024

Beta Labs: Technical Club, IIT Kottayam

- * Leading and supervising a team of AI and Data Science enthusiasts in executing various projects and initiatives.

Sub Technical Lead

September 2022 - June 2023

Google Developer Student Club, IIT Kottayam

- * Organized workshops, seminars and hackathons for the student community at IIT Kottayam.

COURSES AND CERTIFICATIONS

- AWS ML Engineer Nanodegree Program 
- AWS Machine Learning Foundations 2022 
- AI Planet's 5 Week Data Science Bootcamp 
- Introduction to Python Basics for Data Science 
- Google Cloud Career Practitioners Pathway 
- IBM Quantum Challenge 2024 
- Goldman Sachs Engineering Virtual Program 
- QxQ's Introduction to Quantum Computing 
- 2023 IEEE SPS Seasonal School on Quantum Computing and Machine Learning 