

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

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

December 2021 – May 2025

Kerala, India

Our Own English High School, Sharjah

Class XII (CBSE) — Final Grade - 98.2%

April 2019 – July 2021

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 ↗

NLP Engineer

May 2025 – Present

Bangalore, Karnataka, India

- * Engineered a semantic cache upgrade by migrating to MPNet embeddings, achieving latency reduction of around 60%
- * 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 ↗

Student Researcher

July 2025 – August 2025

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 ↗

AI Research Intern

January 2025 – April 2025

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 ↗

AI Research Intern

October 2024 – December 2024

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 ↗

Research Intern (DAAD-WISE Scholar)

May 2024 – July 2024

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 and Published in the proceedings of the QNLP Workshop, International Joint Conference on Natural Language Processing & Asia-Pacific Chapter of the Association for Computational Linguistics (ACL-IJCNLP) 2025, Mumbai, India, December 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
Accepted and Published in the Proceedings of the 19th International Workshop on Semantic Evaluation (SemEval 2025), Association for Computational Linguistics (ACL) 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 and Published at the Proceedings for CheckThat! Workshop, 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, Seoul, South Korea, November 2025
- **TIFIN at CheckThat! 2025:** Cross-Lingual Subjectivity Classification in News through Monolingual, Multilingual, and Zero-Shot Learning
Kishan Gurumurthy, Ashish Shrivastava, Pawan Kumar Rajpoot, Prasanna Devadiga, Bharatdeep Hazarika, Manish Jain, Manan Sharma, **Arya Suneesh**, Anshuman B Suresh, Aditya U Baliga
Accepted at the CheckThat! Workshop, Conference and Labs of the Evaluation Forum (CLEF 2025), Barcelona, Spain, September 2025
- **TIFIN at CheckThat! 2025:** X-VERIFY - Multi-lingual NLI-based Fact Checking with Condensed Evidence
Bharatdeep Hazarika, Prasanna Devadiga, Pawan Kumar Rajpoot, Aditya U Baliga, Kishan Gurumurthy, Manish Jain, Manan Sharma, Ashish Shrivastava, **Arya Suneesh**, Anshuman B Suresh
Accepted at the CheckThat! Workshop, Conference and Labs of the Evaluation Forum (CLEF 2025), Barcelona, Spain, September 2025

EXTRACURRICULAR

Community Lead, ML Industry

June 2025 - Present

Cohere Labs Open Science Community

- * Initiated and directing the 'ML Industry' program to bridge the gap between academic research and industrial application in frontier machine learning.
- * Organizing 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, IIIT Kottayam

- * Supervised 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, IIIT Kottayam

- * Organized workshops, seminars and hackathons for the student community at IIIT Kottayam.
- * Mentored student teams during the Google Solution Challenge 2023.

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 