

# Abdul Kadir Nalawala

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## Education

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- **Sarvajani College of Engineering and Technology** August 2021 - May 2025  
*Bachelor of Technology in Computer Engineering; CGPA: 9.25/10.0* Surat, India

## Experience

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- Kombe Technologies** — *Python Intern* January 2025 - April 2025
  - Developed a P.O.C custom **RAG** system integrating Azure DevOps work items into Visual Studio Code, using **open-source LLMs and Azure APIs** to provide contextual code assistance for developers.
- Vertexco Lab** — *Generative AI Intern* May 2024 - July 2024
  - Developed a **Python package** leveraging **Selenium WebDriver** to interact with the ChatGPT web interface.
  - Integrated official **OpenAI Python library** for comprehensive ChatGPT interaction capabilities.

## Publication

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- **SmileSculpt: Sculpting Smiles Digitally** 📄 — 🏆 *Best Paper Presentation Award*  
Nalawala Abdul Kadir, Dalal Vansh, Biyawala Vaibhav, Joshi Neeraja, Nirali Nanavati, Pinak Kapadia  
*International Conference on Recent Trends in Image Processing & Pattern Recognition* [RTIP2R'24]

## Projects

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- Sumsum** — *LLM - finetuning* 📄
  - Developed a minimal command-line interface (CLI) tool - **Sumsum**, to locally **summarize text** using a Large Language Model (LLM).
  - **Fine-tuned Llama3.2-3B-Instruct** on *Longform article summarization* dataset.
  - Implemented features such as dependency checks, model downloads, and verbose output for **better user experience**.
- Bishōgrad** — *Python Package, Machine Learning* 📄
  - Built a custom **Autograd engine** for Machine Learning tasks.
  - Implemented core auto-differentiation functionality, including **forward and backward passes**, enabling efficient **gradient computation** for various mathematical operations.
  - Incorporated advanced mathematical functions such as **tanh, ReLU, and exponential**, expanding the engine's capabilities for **complex neural network architectures**.
- Codebase Analyzer** — *Python, CLI tool* 📄
  - Designed a **CLI tool** to analyze any GitHub repository using **ChatGPT LLM** for code improvements, bug fixes, etc.
  - Integrated **GitHub API** to seamlessly fetch and download repository files.
  - Automated the process of downloading, analyzing code files across **multiple programming languages** and generating improvement suggestions.

## Achievements

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- Scored **76/100 (Top 5%)** in the course - Introduction to Large Language Model offered by IIT Madras & NPTEL 📄
- Scored **69/100 (Elite)** in the course - Natural Language Processing offered by IIT Kharagpur & NPTEL 📄
- **Semi-finalist** in the 13<sup>th</sup> edition of the **CSI-InApp International Student Project Awards** project competition with the *Digital Smile Design* project 📄

## Technical Skills

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- **Relevant courses:** Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, Intro. to LLMs, Natural Language Processing.
- **Languages:** Python, C, C++
- **Frameworks/Libraries:** NumPy, Pandas, PyTorch, Transformers, Unsloth, vLLM
- **Additional Developer Tools:** Git, Visual Studio Code, uv.

## Position of Responsibility

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- **Technical Lead** July 2023 - June 2024  
Google Developer Student Clubs, SCET