

Abdul Kadir Nalawala

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Education

- **Sarvajani College of Engineering and Technology**
Bachelor of Technology in Computer Engineering; CGPA: 9.25/10.0

August 2021 - May 2025

Surat, India

Experience

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

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

Sumsum — *Python Package, 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, and more.
- 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

- **Semi-finalist** in the 13th edition of the **CSI-InApp International Student Project Awards** project competition with the *Digital Smile Design* project 📄
- 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 📄

Technical Skills

- **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
- **Additional Developer Tools:** Git, GitHub, Visual Studio Code, HuggingFace, Google Colab, uv.

Position of Responsibility

- **Technical Lead**
Google Developer Student Clubs, SCET

July 2023 - June 2024

- **Leader**
Internet of Things Club, SCET

Aug. 2023 - May 2024

- **Co-Leader**
CO Smriti Magazine, SCET

Aug. 2022 - Aug. 2023