

Abdul Kadir Nalawala

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Education

Sarvajanik College of Engineering and Technology, Surat

August 2021 - May 2025

Bachelor of Technology in Computer Engineering

CGPA: 9.08 (upto 7th semester)

Experience

Vertexco Lab — *Generative AI Intern*

May 2024 - July 2024

- Developed a **Python package** that leverages **Selenium WebDriver** to interact with the ChatGPT web interface.
- Integrated the official **OpenAI Python library** for comprehensive ChatGPT interaction capabilities.

Publications

SmileSculpt: Sculpting Smiles Digitally — *Best Paper Presentation Award* — *Scopus Index*

December 2024

International Conference on Recent Trends in Image Processing & Pattern Recognition

Projects

Sumsum — *Python, Python Package, Open Source* 🌐

- Developed a minimal command-line interface (CLI) tool named **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, Python Package, Open Source* 🌐

- 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, OpenAI* 🌐

- 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, recognized for the innovative use of Generative AI in the field of dental aesthetics.
- **Competitive Programming : Specialist**(Max. **1432**) at [CodeForces](#), 4*(Max. **1852**) at [CodeChef](#)
- Certified in **Supervised Machine Learning** ([Coursera](#))

Technical Skills

- **Computer Science Fundamentals:** Data Structures and Algorithms, Database Management Systems, Computer Networks, Operating Systems, Theory of Computation, Compiler Design, Artificial Intelligence, Machine Learning and Deep Learning
- **Languages:** Python, C, C++
- **Frameworks/Libraries:** NumPy, Pandas, PyTorch, Transformers
- **Additional Developer Tools:** Git, GitHub, Visual Studio Code, HuggingFace, Google Colab, uv.

Positions of Responsibility

- **Technical Lead** *July 2023 - June 2024*
Google Developer Student Clubs, SCET
- **Leader** *Aug. 2023 - May 2024*
Internet of Things Club, SCET
- **Co-Leader** *Aug. 2022 - Aug. 2023*
CO Smriti Magazine, SCET