

Abdul Kadir Nalawala

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Education

- **Sarvajanik College of Engineering and Technology** August 2021 - May 2025
Bachelor of Technology in Computer Engineering Surat, India
 - CGPA: **9.08** (till 7th semester)

Experience

- **Vertexco Lab** May 2024 - July 2024
Generative AI - Intern
 - Developed a **Python package** leveraging **Selenium WebDriver** to interact with the ChatGPT web interface.
 - Integrated official **OpenAI Python library** for comprehensive ChatGPT interaction capabilities.

Projects

- **Digital Smile Design**
Generative AI — Deep Learning, PyTorch, Diffusers, Fooocus
 - Developed a novel smile redesign system utilizing the **Stable Diffusion XL** model from Hugging Face
 - Experimented with hyperparameters such as **guidance scales and prompt strength** for state of the art image generation.
 - Constructed a user-friendly web interface using **Gradio and Fooocus**.
- **Bishōgrad** 🌀
Python Package, Machine Learning, 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**.
- **Code Base Analyzer** 🌀
Python, GitHub OAuth, API
 - 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 innovative use of Generative AI in the field of dental aesthetics.
- **Competitive Programming : Specialist**(Max. **1432**) at [CodeForces](https://codeforces.com), 4*(Max. **1852**) at [CodeChef](https://www.codechef.com)
- **OpenSource Contributor** in Hacktoberfest-2023
- Certified in **Supervised Machine learning** ([Coursera](https://www.coursera.org))

Technical Skills

- **Computer Science Fundamentals:** Data Structures and Algorithms, Database Management Systems, Computer Networks, Operating Systems, Compiler Design.
- **Languages:** Python, C, C++, Java
- **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