

# KISHAN VED

Junior Undergraduate  
Discipline of Computer Science and Engineering  
Indian Institute of Technology Gandhinagar

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[GitHub](#) | [Website](#) | [LinkedIn](#)

## EDUCATION

B.Tech	Computer Science and Engineering, IIT Gandhinagar	2022-26	CGPA: 9.62
Class XII	Prakash College, Mumbai	2022	85%
Class X	Thakur International School, Mumbai	2020	97.8%

## INTERNSHIPS

- **Google Summer of Code , NumFOCUS** (May 2024 - Aug 2024)  
*Software Developer*
  - Developed and optimized `PyDataStructs`' C++ backend, integrating advanced tree data structures like AVL Trees, Red Black Trees, Splay Trees and Cartesian Trees. Added over 4000 lines of code
  - Achieved an 8-10x increase in execution speed for high-performance computing tasks
  - Technology used: C++, Python, Python-C API, Git, GitHub. Links: [Project Code](#) , [Verification Letter](#)

## OPEN SOURCE SOFTWARE DEVELOPMENT

- **LFortran (LLVM based Fortran Compiler) | 10 Merged PRs | [Contributions Link](#)**
  - Implemented Fortran intrinsic functions in C++ backend with comprehensive tests
  - Collaborated with the development team to resolve issues in string slicing, data type handling, and addressed emitted warnings, resulting in achievement of project milestones and 3 releases
- **LPython (Ahead-of-time Python Compiler) | 5 Merged PRs | [Contributions Link](#)**
  - Programmed advanced functions in the NumPy module, developed 3 string APIs and enhanced version control, guaranteeing perfect CI checks on GitHub. Contributed to overall development
- **Smart LATEX Resume Generator with AI, Project Founder and Maintainer | [Website](#) | [GitHub](#)**
  - Designed and deployed an innovative website for generating resumes in LaTeX, which assisted over 1000 IITGN students in producing high-quality resumes. Technology used: HTML, CSS, JS, Groq API
  - Participated in Hacktoberfest 2024 as the project maintainer and received 25+ pull requests

## PROJECTS

- **Image Super Resolution and Reconstruction using Machine Learning | [GitHub](#)**  
Leveraged advanced ML techniques like Matrix Factorization and Random Fourier Features to enhance resolution and reconstruct images. Utilized Python and relevant libraries
- **Pre-Trained LLM for Nepali Language with 80 million parameters | [HuggingFace](#) | [GitHub](#) | [Dataset](#)**  
Scrapped 10000+ articles, curated 120 GB of raw Nepali data to train 7 tokenizers and a large language model based on Llama architecture that recorded a perplexity of 171 on sentence completion

## SKILLS

- C++, C, Python, Python-C API, Java, HTML, CSS, JavaScript, SQL, Groq API
- Ubuntu (Linux), Git, GitHub, MATLAB, PyTorch, Tensorflow, HuggingFace, Numpy, Pandas, Streamlit

## COURSES - (11/10 is awarded for exceptional performance and ranking #1 in the batch)

- **CS:** Machine Learning (11/10), Natural Language Processing (11/10), Data Science (10/10), DSA (10/10)
- **Mathematics:** Probability, Statistics and Data Visualization (10/10), Numerical Methods (11/10), Linear Algebra and Single Variable Calculus (10/10), Differential Equations (10/10), Discrete Mathematics (9/10)

## ACHIEVEMENTS

- Accomplished Specialist level on Codeforces, earning a maximum rating of 1524. [Codeforces Link](#)
- Achieved 2nd rank in CPI for IIT Gandhinagar's 2022-26 batch, showcasing academic excellence
- Designated as a Reliance Foundation Undergraduate Scholar (received by top 2000 applicants)
- Attained an elite position with All India rank 1348 in IIT-JEE, being in the top 0.01% students
- Solved 230+ DSA questions on LeetCode, among the top 15.4% users with a contest rating: 1668. [Profile](#)

## POSITION OF RESPONSIBILITY

- **Deputy Contingent Leader IITGN, InterIIT Tech Meet 13.0** (Oct 2024 - Dec 2024)  
Led the contingent of 60+ members and secured a fantastic performance with 2 trophies - 1 silver and 1 bronze at the InterIIT Tech Meet 13.0. Served as the coordinator of IITGN's Technical council