NIRANJAN DAYANAND DESAI

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PROFESSIONAL SUMMARY

A software engineering student with a foundational understanding of core computer science concepts and a growing interest in areas like web development, cybersecurity and cloud technologies. Seeking opportunities to apply my skills, collaborate with others, and continue learning in an environment that values innovation, growth, and collective success.

EDUCATION

KLE Technological University, Belagavi *Aug 2022 – Present*
Bachelor of Engineering (B.E), Computer Science and Engineering
Current CGPA: 7.58/10

Govindrama Seksaria Science College, Belagavi *Aug 2020 – May 2022*
Pre-University Course (PUC) – Science Stream
Percentage: 70.66%

St. Pauls High School Belgundi, Belagavi *Jun 2019 – Apr 2020*
Secondary School Leaving Certificate (SSLC)
Percentage: 83.84%

TECHNICAL SKILLS

- **Languages:** C, C++, SQL, HTML, CSS, JavaScript
- **Databases/Tools:** MongoDB, Firebase, Hugging Face, AWS (EC2), VSCode, Git, GitHub, Overleaf

PROJECTS

- **Learnova – AI-powered Learning Platform**
  - Developed an intelligent learning management system that personalizes the educational experience using AI.
  - Enabled students to generate notes, quizzes, and study plans, and track academic progress through a unified dashboard.
- **Logofy – AI Logo Generator**
  - Built a full-stack AI logo generator that creates logos from text prompts using Hugging Face models.
  - Implemented user auth, credit system, and logo history with Firebase backend.
- **Simulating DDoS Attacks to Test Server Resilience**
  - Simulated DDoS attack types to evaluate server response to malicious traffic.
  - Analyzed performance, traffic patterns, and identified weaknesses.
- **Pesticide Recommendation using Machine Learning**
  - Trained a machine learning model to classify pest species based on user inputs.
  - Recommended appropriate pesticide based on the model's output.

PUBLICATIONS

Mechanics in DDoS: A Study of Layer 4 and 7 Threat Vectors
Accepted at *3rd International Conference on Futuristic Technologies (INCOFT-2025)*
Simulated real-world DDoS attacks (Layer 4 and Layer 7). Used Wireshark and dstat for monitoring traffic patterns, system behavior, and suggesting mitigation strategies.

POSITION OF RESPONSIBILITY

- **Core Member** | *Melodia Club, KLE Technological University* *Aug 2022 – Aug 2024*
  - Contributed to organizing musical events during college fests, collaborating with peers to engage 300+ attendees.