NIKITA JOSHI

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Education

Graphic Era Hill University, Dehradun	**Aug 2022 – Present**
Bachelor of Technology in Computer Science	*8.52 / 10.0 CGPA*
Oakland Public School, Dehradun	**2022**
12th, CBSE	*86.4%*
Mallikarjun Public School, Dehradun	**2020**
10th, CBSE	*91.3%*

Projects

Fake News Detection System | *Python, NLP, TF-IDF, Logistic Regression*   **May 2025 – July 2025**
- Developed a machine learning model to classify news articles as fake or real using Logistic Regression and TF-IDF vectorization,achieving 95%+ accuracy
- Applied NLP preprocessing like text cleaning, stopword removal, and stemming to boost model accuracy.
- Built an interactive web application with Streamlit for real-time fake news prediction and user testing.

Disk Scheduling Simulator | *HTML, CSS, JavaScript, Canvas.js, C++*   **Feb 2025 – Apr 2025**
- Built an interactive simulator to visualize disk scheduling algorithms (FCFS, SSTF, SCAN, C-SCAN, LOOK, C-LOOK).
- Used Canvas.js to create dynamic graphical animations of disk head movements and algorithm behavior.
- Enhanced learning by allowing user inputs and providing real-time visualization.

Weather Dashboard Web Application | *HTML, CSS, JavaScript, Web APIs*   **Nov 2024 – Jan 2025**
- Developed a Web App using HTML5, CSS3, and JavaScript to display real-time weather for different locations.
- Integrated OpenWeatherMap API Suite to fetch and render weather details.
- Implemented responsive UI/UX with live search, location detection, and forecast visualization for seamless performance.

Source-to-Source Translator (C to Python) | *Lex, Yacc, C++,Python*   **July 2024 – Sep 2024**
- Developed a Source-to-Source Compiler converting C to Python using Flex, Bison, and C++ as the core engine.
- Integrated Python Flask backend with HTML/CSS/JavaScript frontend for real-time code conversion.
- Implemented lexical analysis, syntax parsing, and code generation for control structures, variables, and expressions.

Technical Skills

Languages: C/C++(proficient), SQL, Java, Python, HTML, CSS, JavaScript
Developer Tools: VS Code,Ubuntu, Google Colab,Jupyter Notebook
Core Competencies: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Machine Learning

Achievements and Responsibilities

- Completed a virtual internship with **SmartBridge Salesforce** (2025), gaining practical experience in CRM tools.
- Active volunteer in the **National Service Scheme (NSS)**; contributed to community engagement activities.
- Secured **1st position** in a **district-level Quiz Competition** and recieved a cash prize.
- Recognized as a **CBSE Merit Holder** and received an academic scholarship.
- Earned **NPTEL certifications** in C Programming, Assembly Language, and Cybersecurity.
- Participated in various technical hackathons and coding competitions across departments.