Bavish

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EDUCATION

Chandigarh University	Mohali, India
*Bachelor of Engineering in Computer Science and Engineering, CGPA: **8.67***	*Aug. 2022 - Present*

EXPERIENCE

NLP and Web Scraping — May 2024 - June 2024
In-House Summer Training (Chandigarh University) — *Remote*
- Extracted job data from **100+** LinkedIn pages, storing key details in a CSV for analysis.
- Analyzed **1,000+** job postings and visualized top companies, titles, and locations using Matplotlib and WordCloud.
- Built a Random Forest model with **95% accuracy** to classify job titles based on descriptions using TF-IDF vectorization.

PROJECTS

Visitly | *HTML, Bootstrap, JavaScript, Node.js, Express.js, MongoDB* — Dec. 2024 - March 2025
- Developed a full-stack web application inspired by Airbnb, enabling users to search and book accommodations with advanced filters.
- Implemented user authentication, commercial/non-commercial property toggles, sustainable property metrics, and **360°** panoramic views.
- Built and maintained interactive maps with **Mapbox**, handled image uploads using **Cloudinary**, and integrated **Razorpay** for seamless payment handling.

VibeChat | *React.js, Node.js, Express.js, MongoDB, Socket.io* — Sep. 2024 - Nov. 2024
- Engineered a scalable full-stack chat app with **100%** real-time messaging via **Socket.io**, enabling instant user communication.
- Designed **10+** RESTful APIs for authentication and messaging using **Express.js** and **MongoDB**.
- Implemented a modular MVC architecture and JWT-based authentication system, securing over **95%** of user actions through middleware-protected API routes.

A Comparative Analysis of Root-Finding Methods (Research Paper) | *IEEE* — Apr. 2024 - June 2024
- Authored a generalized **Python** program incorporating SymPy, NumPy, and Matplotlib to compare three root-finding methods (Bisection, Newton-Raphson, Secant) across multiple nonlinear functions.
- Enhanced user experience by providing flexibility for user input (function, tolerance, and interval), with custom error handling, ensuring **99%** successful execution in diverse scenarios.
- Visualized convergence of roots with over **50** data points, providing real-time graphical representation of methods.

ACHIEVEMENTS AND CERTIFICATIONS

- **Competitions**: Winner in multiple competitions: **Code Relay** (out of 125+ teams), **Aptitude Wizard Season 22** (out of 600+ participants), **Code Hawk** (out of 200+ competitors), **Website Development** (out of 100+ participants).
- **TCS CodeVita**: Secured **Global Rank 4379** out of **537000+** participants in **TCS CodeVita Season 12**.
- **Coding Platforms**: Solved **500+** problems on platforms like **Leetcode**, **Coding Ninjas**, and **HackerRank**.
- **Academic Excellence**: Secured **Top 1%** in **Foundation of Cloud Edge ML**, **Internet of Things**, **Cloud Computing**, and **Multi-Core Computer Architecture** courses by Swayam NPTEL.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript
Web Development: HTML, CSS, Node.js, Express.js, MySQL, MongoDB
Tools and Technologies: VS Code, Colab, Git, Version Control
Coursework: Data Structures and Algorithms, Operating System, Object Oriented Programming, Database Management System, Computer Networks