Udit Gupta

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EDUCATION

Thapar Institute of Engineering and Technology   Patiala,Punjab
Bachelor of Engineering in Computer Science   *Sep. 2022 - May 2026*

COURSEWORK

Courses: Object-Oriented Programming Systems(OOPS), Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Artificial Intelligence (AI), Machine Learning (ML), Operating Systems (OS),Computer Networks (CN), Computer Architecture and Organization(CAO), Software Engineering, Data Science.

EXPERIENCE

Software Development Intern   Jun 2024 – Jul 2024
SoGrow   *Chandigarh*
- Built a URL shortening service using Node.js and Express.js, ensuring efficient and scalable backend operations.
- Structured and optimized MySQL database schemas to securely store and manage link-related data.
- Coordinated with the frontend team to integrate RESTful APIs, improving user experience.
- Leveraged Git for version control, streamlining code management and fostering seamless collaboration within the team.

PROJECTS

Emotion Detector | *Python, Machine Learning* | Notebook Link   Nov 2024 – Dec 2024
- Developed a system to classify emotions (e.g., joy, anger, sadness) from text using machine learning techniques.
- Used a Kaggle dataset with 16,000 training samples labeled across 6 emotions.
- Preprocessed text with lemmatization, stop-word removal, and TF-IDF vectorization for feature extraction.
- Experimented with models such as Logistic Regression, Random Forest and SVM achieving over 85% accuracy.

Mini CRM & Campaign Management | *Node.js, Express.js, MongoDB, EJS* | Source Code   Nov 2024
- Delivered a Mini CRM Campaign Management App in 2 days, providing complete backend (API development, data handling) and frontend (user interface for audience segmentation and campaigns).

EaseEvents | *Node.js, Express.js, MongoDB, EJS* | Prototype Link   Sep 2024 – Oct 2024
- Conceptualized and launched a platform connecting users with service providers for event-related needs, supporting 5-6 different service provider categories.
- Implemented user-side features to browse, filter, and book service providers based on criteria like cost, location, and rating.
- Enabled 5-6 service provider categories to manage bookings, set availability, and maintain event records, streamlining workflows and improving provider engagement.
- Crafted interactive user interfaces using EJS templates to enhance usability.

Live Location Tracker | *Socket.io, Node.js* | Prototype Link   Jun 2024 – Jul 2024
- Created a real-time location tracking app with Socket.IO, enabling 2 or more users to share live location data in shared rooms.
- Developed a robust Node.js backend to efficiently handle more than 1 room and multiple user connections, enabling real-time location tracking.
- Integrated live map markers in a responsive interface to ensure an engaging user experience

TECHNICAL SKILLS

Languages: C/C++, SQL (Postgres),JavaScript, HTML/CSS, R, Python, Java,
Frameworks: React, Node.js,Express.js
Developer Tools:VS Code, Postman, Git, RStudio, Jupyter Notebook, Google Colab, Visual Studio, IntelliJ
Databases: MongoDB, PostgreSQL, MySQL, ORACLE SQL
Libraries: pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

EXTRACURRICULAR

Codechef: 3 Star coder on Code chef, Starters 160(Global Rank: 276) *Codechef Profile*
CCS: Executive member of oldest Tech Society of Thapar 'CCS'