SHUBHANAN SHARMA

New Delhi

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EDUCATION

University of Petroleum and Energy Studies — **Pursuing 3rd Year**
*B.Tech in Computer Science (AI/ML) - CGPA - **8.59*** — *Dehradun, Uttarakhand*

Modern School, Barakhamba Road — **2020 – 2021**
*CBSE Class XII - Grade: **91**%* — *New Delhi*

PROJECTS

The Wild Oasis | React, Styled Components, Supabase | **CODE** | **LIVE**

- Developed a comprehensive hotel management system with **React** and **Supabase**, featuring real-time dashboard analytics, booking management, and secure authentication for hotel staff.
- Implemented advanced frontend features including **dark/light theme** support, data visualization with **Recharts**, and a complete cabin and guest management system with **image upload** functionality.

Natours | Node.js, Express.js, MongoDB, REST API | **CODE** | **LIVE** | **API**

- Developed a full-stack tour booking platform using **Node.js**, **Express**, and **MongoDB** with **JWT** authentication, role-based access control, and **Stripe** payment integration for secure bookings.
- Designed and implemented a responsive **RESTful API** with advanced tour filtering, interactive mapping via **Leaflet**, and comprehensive security features including **Helmet**, **data sanitization**, and **rate limiting**.

Chrome Extensions | Javascript | **PomodoLock** | **NoMoRecs** | **PureView**

- **PomodoLock**: Implemented the Pomodoro Technique with website blocking—using Chrome's **Storage, Alarms** and **WebNavigation APIs**—to create a distraction-free work environment.
- **NoMoRecs**: Developed a real-time DOM-manipulation solution with **MutationObserver** to disable YouTube's recommendation engine and prevent "rabbit-hole" viewing.
- **PureView**: Engineered a hybrid ad-blocker combining the **declarativeNetRequest API** with DOM-element hiding to remove ads while preserving page performance.

Snap-n-Solve | Python, OpenCV, TensorFlow | **CODE**

- Developed a computer vision application using **Python**, **OpenCV**, and **TensorFlow** that performs real-time Sudoku detection, digit recognition via **CNN**, and solution overlay through webcam input.
- Implemented an optimized **Best-First Search algorithm** with **priority queue** mechanics that efficiently solves puzzles of varying difficulties by prioritizing cells with fewest possible values, minimizing computational complexity.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, HTML, CSS

Tools/Frameworks: React, Next.js, Node.js, Express.js, Mongoose, Pug, Postman, OpenCV, TensorFlow, Keras

Databases: MYSQL, MongoDB, Supabase

Course Work: Data Structures and Algorithms, Database Management Systems, Operating Systems, Object-Oriented Programming(OOP), Machine Learning, Computer Networks, Computer Vision

ACHIEVEMENTS AND CERTIFICATIONS

* Solved **170+** Problems on **Leetcode**
* Participated in the **CSI Hackathon 8.0** to develop innovative solutions and enhance problem-solving
* The Complete **JavaScript** Course - Udemy
* **Node.js, Express, MongoDB** and More: The Complete Bootcamp - Udemy
* Automate the Boring Stuff with **Python Programming** - Udemy