

TUSHAR PAL

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🌐 [Linkedin](#)

🐙 [Github](#)

🏆 [CodeChef](#)

EDUCATION

University Of Petroleum And Energy Studies

2022 – 2026

B.Tech - Computer Science and Engineering - CGPA - 7.5

Dehradun, Uttarakhand

PROJECTS

AI-Powered Driver Drowsiness Detection System 📄 | Java, OpenCV, CNN

Aug 2024

- Developed and refined a real-time AI system to monitor driver behavior, achieving **97% accuracy** in detecting signs of drowsiness.
- Implemented machine learning algorithms (**CNNs**) to analyze visual cues, aiming to enhance road safety and prevent fatigue-related incidents.
- Collected and processed extensive driver behavior data to train and optimize detection models.

Intelligent Banking System Chatbot 📄 | Java, Natural Language Processing (NLP)

Jan 2025

- Designed and developed an AI-powered banking chatbot aimed at enhancing customer experience.
- Provided intuitive access to financial insights through natural language queries.
- Assisted users in evaluating loan eligibility using rule-based logic and predictive analysis.
- Implemented basic fraud detection mechanisms to ensure transactional security.

Email Spam Detection System 📄 | Python, Scikit-learn, Gradio, Pandas, NumPy

Jun 2025

- Developed a machine learning-powered system for real-time email spam detection, achieving **97% accuracy** on a dataset of over 4,000 email messages.
- Designed and deployed an intuitive **Gradio web interface** for instant spam/ham classification.
- Engineered a robust ML pipeline utilizing a **Multinomial Naive Bayes classifier** with **TF-IDF vectorization** for feature extraction.

Samsung Clone - Responsive E-Commerce Frontend 📄 | HTML, CSS

Jul 2025

- Designed and developed a fully responsive replica of Samsung's official website using HTML and CSS.
- Implemented a hover-based mega menu for product categories like "Shop" and "Mobile".
- Built custom components including navigation bar, product cards, and promotional banners for a realistic user interface.
- Emulated Samsung's modern design aesthetics with attention to layout, typography, and visual hierarchy.

Responsive Web Portfolio 📄 | HTML, CSS

Jul 2025

- Designed and developed a fully responsive and visually engaging personal portfolio website to showcase projects, skills, and professional experience.
- Implemented a modern, dark-themed UI/UX with custom CSS, incorporating interactive elements like hover effects, smooth transitions, and a dynamic skill progress visualization.
- Ensured cross-device compatibility and optimal user experience through extensive use of media queries and fluid layouts.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Technologies/Frameworks: HTML5, CSS3, React, MongoDB, Express, Javascript, Bootstrap, Tailwind CSS

Developer Tools: VS Code, Jupiter Notebook, IntelliJ, Canva

CERTIFICATIONS

- 250 problems on CodeChef
- Artificial Intelligence - MyCaptain
- Python - MyCaptain
- Web Development - Brillica Services

EXTRACURRICULAR

- Completed UCMAS
- Silver Medalist in National open skating Championship
- Medha Yoga level 1 course holder of Art of Living