Saumya Singh

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Education

Pranveer Singh Institute of Technology, Kanpur **2022 – 2026**
B.Tech. in Computer Science and Engineering (AI & ML) *CGPA: 7.3/10*
New Angels Senior Secondary School, Pratapgarh (CBSE)
Class 12   Percentage: 68.0%   2022
Class 10   Percentage: 82.6%   2020

Projects

DataDrill – Web Scraper using Go 2023

- Designed a scalable web scraper in Go to parse dynamic websites using goroutines for concurrent data retrieval.
- Improved scraping efficiency and reduced data processing time by 60%.

DesignHub – UI/UX Template Gallery (MERN Stack) 2024

- Built a full-stack gallery platform for design templates; reduced client on boarding time by 40%.
- Optimized MongoDB queries and improved load speed performance by 25x.

Water Quality Prediction System – ML,Python, FastAI, TensorFlow, LSTM & MLOps 2025

- Developed a responsive frontend using React and Figma; increased user interaction by 30%.
- Built predictive ML models using Scikit-learn (accuracy: 92%) and deployed via Flask on AWS EC2.
- Predicted algae blooms (89% F1-score) and water quality, cutting lab tests by 70%.Deployed optimized LSTM model via Flask API for real-time monitoring.

Extracurricular Activities

- Participated in hackathons and coding competitions.
- Volunteer, Tech Community Events: Assisted in organizing and managing technical workshops and seminars.

Technical Skills

Languages: Python, JavaScript, SQL, HTML, CSS
Frameworks: React, Node.js ,Tailwind CSS ,BootStrap Flask, Express.js
Tools: Git, GitHub ,ML Flow,MongoDB ,MySQL
Cloud: AWS, GCP(Basics)
Design: Figma , Canva , Adobe Photoshop

CERTIFICATIONS/ACHIEVEMENT

- UI/UX Design Specialization - Udemy
- Complete Web Development Course – Udemy
- AWS Cloud Practitioner Essentials
- TCS iON Career Edge – Young Professional
- The Complete Python Bootcamp – Udemy
- AWS Cloud Technical Essentials – Coursera
- HTML, CSS, JavaScript, BootCamp, Python – Infosys Springboard