Susanta Gope

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Projects

ParkVision - Smart Car Parking | *Django, React.js, OpenCV, TensorFlow/PyTorch, YOLO* Aug. 2025 – Present

- Engineered a full-stack smart parking system using Django REST Framework, PostgreSQL, and React.js for real-time parking management.
- Integrated OpenCV to simulate animated car movement and dynamically visualize slot occupancy.
- Designed an AI-driven predictive model to forecast parking slot availability, minimizing vehicle waiting times.
- Implemented a waiting queue system to calculate estimated waiting time when all slots are occupied.
- Developed REST APIs to provide real-time parking data and analytics to the frontend dashboard.
- Generated actionable parking analytics including peak hours, slot occupancy trends, and average waiting times for informed decision-making.
- **GitHub:** https://github.com/susanta7029/Smart-Car-Parking

ShopSphere – Smart E-Commerce Web App | *Django, MySQL, Bootstrap, Stripe API* Apr. 2025 – May. 2025

- Developed a responsive e-commerce platform using Django and Bootstrap with complete front-end and back-end integration.
- Implemented user registration, login, profile management, wishlist, and product reviews with proper form validation.
- Built product catalog with pagination, search functionality, and detailed product pages for better UX
- Developed a custom admin dashboard for inventory and order management with staff-only access.
- Integrated Stripe payment gateway and real-time order tracking with automated email notifications.
- **GitHub:** https://github.com/susanta7029/Ecommerce-Web-App

InsureLytics - Health insurance cost prediction. | *Python, Scikit-learn, Streamlit, Pandas* Nov. 2024 – Dec. 2024

- Built machine learning models (Linear Regression, Random Forest) to predict insurance charges based on demographic data.
- Performed data preprocessing using Scikit-learn pipelines, including cleaning, imputing missing values, one-hot encoding, and scaling features for model training.
- Conducted exploratory data analysis (EDA) using Seaborn and Matplotlib to identify cost-influencing features like BMI and smoking.
- Achieved an R^2 score of 87% on the test set, improving performance by over 9% compared to Linear Regression.
- Deployed a Streamlit app for real-time prediction with full ML pipeline from data cleaning to deployment.
- **GitHub:** https://github.com/susanta7029/health-insurance-predictor

Certificates

- Cloud Computing — NPTEL — Apr. 2025
- Data Structures and Algorithms — GeeksforGeeks — Aug. 2024
- Getting Started with AI and Machine Learning — LinkedIn — Jul. 2024
- Programming in C++, A Hands-on Introduction — - Coursera — May. 2024

Technical Skills

Languages: Python, Java, C++, JavaScript
Libraries/Frameworks: HTML, CSS, Django, Django Rest Framework, Pandas, NumPy, Tableau, Power Bi, Docker
Database/Platforms: MySQL, Excel, Google Colab, Jupyter, Git, GitHub, VS Code
Skills: Data Structures and Algorithms, Problem-Solving, Scripting in Python.

Education

Lovely Professional University — Phagwara, Punjab
Bachelor of Technology in Computer Science and Engineering - CGPA: 7.75 — *Since Aug. 2022*

Indpur Goyenka High School — Bankura, West Bengal
Intermediate - 92.4% — *Apr. 2019 – Mar. 2021*

Bansidi High School — Bankura, West Bengal
Matriculation - 85% — *Apr. 2018 – Mar. 2019*