ANJALI KUMARI
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PROFILE SUMMARY

I am an MCA graduate from Pondicherry University with practical experience in web development and AI/ML projects. I have worked as a web developer where I collaborated in building ERP systems using HTML, CSS, JavaScript, PHP, and MySQL. Currently, I am a WBL intern at CDAC working on a traffic signal control project using reinforcement learning. I am passionate about contributing to impactful development projects.

EDUCATION

Master of Computer Applications (MCA) – Pondicherry University
2022 – 2024 | CGPA: 9.03
Bachelor of Computer Applications (BCA) – A.N. College, Patna
2019 – 2022 | Percentage: 68.2%
Senior Secondary (12th – PCM) – A.N.S. College, Barh, Bihar
Completed in 2019 | Percentage: 81.4%

WORK EXPERIENCE

WBL Intern – AI & ML Using Python
CDAC — Feb 2025 to Present

- Implementing **Deep Reinforcement Learning (DQN)** to optimize traffic signal control in urban settings.
- Simulating traffic environments using **SUMO** and integrating **Python-based RL models**.
- Designing reward functions and analyzing performance metrics such as **queue length** and **wait time**.
- Documenting model results and contributing to iterative model improvement.

Web Developer
Magnetix Infosystems & Development Pvt. Ltd. — Sept 2024 – Feb 2025

- Developed and maintained ERP modules using **HTML, CSS, JavaScript, PHP,** and **MySQL**.
- Worked closely with team members and clients to enhance usability and meet functional requirements.
- Participated in front-end design and back-end integration to deliver user-friendly ERP solutions.

PROJECTS

Spam Shield AI
Team Leader | 1st Runner-Up – Cyber Hackathon 2025
CDAC Patna & Economic Offences Unit, Bihar Police — June 2025

- Led a 5-member team to develop **Spam Shield AI**, a real-time spam detection system targeting SMS, email, and calls, especially for Indian users communicating in Hinglish.
- Designed and implemented a **Risk Scoring Engine** that integrates BERT-based text classification, call log analysis, email header parsing, and crowdsourced feedback to assess spam likelihood.
- Used **Hugging Face Transformers** with **PyTorch**, trained on custom Hinglish datasets for accurate fraud detection.
- Built a lightweight web app using **FastAPI** and deployed the model with real-time predictions and visual alerts.

- Managed team collaboration, technical architecture, and final demo presentation — delivered results under a 24-hour live hackathon challenge.
- Won **1st Runner-Up (2nd Place)** among 10+ teams for innovation, societal impact, and technical execution.

Smart Contract Vulnerability Detection using GCN
Academic Project | Deep Learning, Blockchain Security

- Designed an automated system to detect reentrancy vulnerabilities in Ethereum smart contracts using **Graph Convolutional Networks (GCN)**.
- Converted smart contracts into **function call graphs**, with nodes as functions and edges representing calls, enabling structural analysis.
- Extracted semantic and structural features and trained a **GCN-based model** to classify contracts as vulnerable or safe.
- Improved detection accuracy by combining **graph learning** with **static code analysis techniques**.
- Enhanced smart contract auditing by reducing manual effort and increasing security and trust in blockchain systems.

Heart Disease Prediction using Machine Learning
A supervised learning project that predicts whether a person has heart disease based on medical attributes.

- Built a classification system using real-world heart disease dataset.
- Implemented and compared 5 ML algorithms: Logistic Regression, Random Forest, SVM, Naive Bayes, and K-Nearest Neighbors.
- Achieved highest accuracy of **81.97%** using **Naive Bayes**.
- Performed data preprocessing, model evaluation (train-test split, accuracy), and predictions on new patient data.
- Built logic to take user inputs and return meaningful health predictions.

Technologies: Python, Scikit-learn, Pandas, NumPy, Jupyter Notebook
ML Concepts: Binary Classification, Model Comparison, Accuracy Metrics, Real-time Prediction

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SKILLS

- Programming languages: Python, JavaScript, PHP,
- Database: MySQL
- Web development: HTML, CSS
- Data analysis: Pandas, NumPy
- Machine learning and deep learning
- Tools: Git, GitHub
- Leadership, Communication and teamwork skills, time management, and problem solving
- Fluent in Hindi and English languages

CERTIFICATIONS

- Introduction to MySQL – Infosys Springboard
- Software Engineering & Agile Methodologies – Infosys Springboard
- Time Management – Infosys Springboard
- Problem Solving (Basic) – HackerRank
- **1st Runner-Up –** Cyber Hackathon 2025, CDAC Patna & Bihar Police (June 2025)