Tanishqa Bansal

Bachelor of Technology
Industrial Internet of Things
Guru Gobind Singh Indraprastha University EDC Delhi
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GitHub
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EDUCATION

•Bachelor of Technology in Industrial Internet of Things *2021-25*

UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi CGPA: 8.87

•Intermediate

Maharaja Agrasen Model School, New Delhi Year: 2020

PERSONAL PROJECTS

•Plant Disease Prediction

Technology Used: Python, CNN, streamlit, keras, numpy.

- Developed and fine-tuned a Convolutional Neural Network (CNN) achieving an impressive 87% accuracy in classifying plant diseases from leaf images.
- Collected, annotated, and augmented 10,000+ leaf images, enhancing dataset quality for better model performance.
- Deployed the model as a web app using Streamlit, enabling real-time disease prediction with an average response time of 150ms

•SurDet AI - Suspicious URL Detector

Technology Used: Next.Js, Typescript, Javascript, ShadCN, API, ML, Generative AI

- Achieved 97% accuracy in detecting suspicious links using machine learning algorithms, enhancing user safety.
- Integrated a chatbot reducing response times by 50%, improving customer support efficiency.
- Developed a reporting system for suspicious activity, processing 500+ reports

•Echo Pages - A blog website

Technology Used : JavaScript, CSS, HTML, API, Node.js, Express.js, Bootstrap, prisma.

- Built a blogging website handling 1000+ concurrent users with 200ms response times for real-time interactions
- Managed 1,000 articles/sec with sub-100ms page loads, ensuring seamless content creation and editing

EXPERIENCE

•CodSoft *July 2023*

Web Development Internship Virtual
- Built a comprehensive platform for online courses with user registration, video lectures, quizzes, and certificate generation, achieving 90% user satisfaction.
- Hosted the platform on various free hosting providers, gaining practical experience in web deployment.
- Utilized GitLab for code management, improving team efficiency by 30%.

•IOT Development Intern *August 2023*

GGSIPU, Delhi In-office
- In response to the task allotted, I developed a simulation project using CupCarbon software to introduce a smart street light system powered by solar energy
- Achieved a 90% decrease in carbon emissions by utilizing renewable energy sources.
- Demonstrated a 60% reduction in electrical energy consumption with the implementation of smart street light systems.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java, Javascript, Typescript, HTML+CSS
Libraries : C++ STL, Python Libraries, Javascript Libraries, Bootstrap
Tools: Nodejs, VScode, Git, Github, Docker, MATLAB, LTspice, Figma
Frameworks: ReactJs, NextJs
Databases:MongoDb, PostgresSQL, Relational Database(mySql)
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering, Machine Learning, Deep Learning, Artificial Intelligence, Embedded System, VLSI, Switching Theory, Computer Networks
Areas of Interest: Web Design and Development, Machine Learning, IOT
Soft Skills: Problem Solving, Self-learning, Leadership, Adaptability, Time management

POSITIONS OF RESPONSIBILITY

•Student Representative USAR, GGSIPU|Delhi *November 2022 - September 2023*

- Spearheaded the establishment of essential amenities such as canteen, medical facility, and hostels, enhancing student welfare and campus life.
- Initiated the college's first techfest, attracting an audience of 1000+ attendees, fostering a culture of innovation and collaboration within the institution.