

Amaldeep Patra

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EXPERIENCE

Technology Intern

Jan. 2024 – April 2024

Tech Mahindra, Pune

Remote

- Developed a face detection model for Project Manav using Python and OpenCV, achieving 95% accuracy.
- Tracked and stored facial landmarks with Haar Cascade, reducing false positives by 20% and improving speed by 30%.

Research Intern

May 2023 – Nov. 2023

Birla Institute of Technology And Science, Pilani

Pilani, Rajasthan

- Wrote a 13-page survey paper on Edge-enabled metaverse, serving as an authoritative source for researchers, developers, and industry leaders.
- Discussed cutting-edge technologies including Edge Computing, AI, VR, AR, Blockchain, and IoT, providing comprehensive insights into their integration within the metaverse context.

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript

Frameworks: Flask, Express.js, React, TailWind

Developer Tools: Git, Google Cloud Platform, VS Code

PROJECTS

Event Management System | *React, Express.js, MongoDB*

May 2024 - Present

- Constructed a user-friendly front-end with React, increasing user engagement by 35% enhancing customer satisfaction and retention.
- Engineered backend infrastructure with Express.js, improving slot booking management efficiency by 40% and reducing administrative approval time by 30%.
- Created a conflict resolution system, preventing overlapping bookings and reducing scheduling conflicts by 50%.

Training Data Share Platform | *HTML, CSS, TailWind, Express.js, MongoDB*

May 2024 - June 2024

- Designed a responsive front-end using HTML, CSS, and Tailwind, boosting user engagement by 30%.
- Architected scalable back-end solutions with Express.js, improving response times by 40% and data processing efficiency by 50%.
- Utilized MongoDB for efficient data storage and retrieval, enhancing data access speeds by 50% and reducing query times by 45%.
- Provided data filtering and exporting features, increasing user satisfaction by 25% and platform usage by 20%.
- Successfully launched the platform, now used by over 50 active users, with a 90% retention rate and 15% monthly growth.

Substitute Faculty System | *HTML, CSS, TailWind, JavaScript, Express.js, MongoDB*

May 2024 - June 2024

- Crafted a front-end interface using HTML, CSS, and Tailwind.
- Engineered back-end services with Express.js, reducing response times by 30% and improving efficiency by 45%.
- Implemented MongoDB for data storage, achieving a 30% improvement in data retrieval speed and reducing query times by 40%.
- Integrated Nodemailer for email notifications, improving communication efficiency by 60% and achieving a 95% email delivery rate.

KiiT-GPT | *Python, LangChain, Llama3, Ollama*

May 2024

- Implemented the model using Python and integrated it with Langchain, handling question-answering tasks with 85% accuracy and reducing response time by 40%.
- Leveraged Llama3 and Ollama for training and fine-tuning, improving response accuracy by 30% and increasing context-awareness by 35%.

EDUCATION

Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science

Bhubaneswar, India

Sept. 2022 – Present

Chinmaya Vidyalaya

Senior Secondary School Education

Bokaro Steel City, India

June 2020 – June 2022