BARUN KUMAR GUPTA

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EDUCATION

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY, Bhubaneswar Science and Engineering
(B.Tech)   CGPA : 8.45

EXPERIENCE / INTERNSHIPS

Software Engineering Intern — ICICI Prudential   June 2024 - July 2024

· Developed a full-stack Loan Prediction System to evaluate loan eligibility and risk, streamlining decision-making for financial officers.

· Built interactive user interfaces with React.js and implemented back-end services using Java (Spring Boot), integrating SQL for data storage and analytics.

· Enhanced system efficiency and accuracy by optimizing data preprocessing, model integration, and providing real-time loan predictions to users.

Software Engineer Intern — Hindustan Aeronautics Limited   June 2023 - July 2023

· Developed a Python model to denoise pilot audio and convert it to text with 88% accuracy.

· Used Python, Pandas, NumPy, and Transformer models to enhance natural language processing tasks, improving data processing efficiency, and also worked on multitiered systems and distributed systems.

· Enhanced workflow processes in seven divisions, leading to an increase in overall efficiency 20% and learned about linear programming and non-linear optimization.

PROJECTS

AI Career Path - Personalized Career Guidance App:[Github]   Sept 2022

· Developed an AI-powered application to guide users in selecting career paths in artificial intelligence based on their skills and interests.

· Implemented a recommendation system using machine learning algorithms to suggest relevant learning paths, courses, and job roles.

· Helped 500+ users navigate AI careers effectively, improving decision-making and learning efficiency by 50%.

Brainly – Digital Knowledge Organizer:[Github]   July 2023

· Developed a full-stack web application that allows users to save and organize links, videos, and articles acting as a personalized second brain for managing digital content.

· Built using React and TypeScript for the frontend, Node.js and Express with TypeScript for the backend, and MongoDB for scalable data storage and retrieval.

· Helped users streamline their content consumption and knowledge retention, improving personal productivity and information recall by up to 60%.

CollabCanvas – Real-Time Collaborative Whiteboard :[Github]   May 2023

· Created a real-time collaborative whiteboard platform, enabling multiple users to draw, brainstorm, and ideate together visually.

· Built with Next.js for the frontend, Java Spring Boot for the backend, used WebSockets for live collaboration, and managed the project with Turborepo monorepo architecture.

· Enhanced team productivity and communication by enabling seamless multi-user collaboration with low-latency updates and scalable back-end infrastructure.

SKILLS

Programming Languages	C, C++, Java, JavaScript, TypeScript , Python
Frameworks and Libraries	React JS, NodeJS ExpressJS, Spring, React Native, Flask, WebRtc
Tools and Operating Systems	Git/GitHub, Postman, AWS, Linux, Docker
Databases	MongoDB, MySQL, SQL, Postgresql
Others	Data Structures, Algorithms, Operating Systems, object-oriented design