Byom Nath Jha

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WORK EXPERIENCE

CrowHub

Front End Engineer   Jul 2025 - Present

- Building responsive and user-friendly interfaces with React and modern JavaScript.
- Implementing reusable components for scalability and maintainability.
- Ensuring cross-browser compatibility and optimized performance.
- Collaborating with the team to translate design mockups into functional web pages.
- Integrating APIs and handling dynamic data rendering to enhance user experience.

Edulyt India

Data Analyst   Jun 2024 - Aug 2024

- Conducted data analysis using Python, SAS, and SQL.
- Developed Excel spreadsheets for data tracking and reporting.
- Assisted in building predictive models and data visualizations.
- Collaborated across teams to ensure data accuracy and improve efficiency.
- Automated tasks to streamline data processing.

CollegeTips.in

AI Intern   Jul 2024 - Aug 2024

- Assisting in the design and deployment of AI-driven models for data analysis and automation.
- Conducting research on emerging AI tools and technologies to improve efficiency and creativity in campaigns.
- Supporting the team in integrating AI applications for content generation, user engagement, and process optimization.
- Collaborating with cross-functional teams to brainstorm and apply AI in real-world scenarios.

EDUCATION

Amity University, Raipur, Chhattisgarh

Bachelor of Technology - Computer Science Engineering   Jun 2022 - Jun 2026

PROJECTS

React Frontend Development ↗

- Developed a responsive landing page using React, Next.js, and TailwindCSS with reusable UI components.
- Implemented animations and transitions using Framer Motion and styled-components for an engaging user experience.
- Optimized for performance, accessibility, and cross-browser compatibility, and deployed on Vercel.

Demand Forecasting Model ↗

- Built time series forecasting models (ARIMA, Exponential Smoothing, Linear Regression) to predict product demand.
- Used Python (pandas, NumPy, scikit-learn, statsmodels, seaborn, matplotlib) for data preprocessing, visualization, and model evaluation.
- Improved forecast accuracy using feature scaling and train-test split; evaluated performance with MAE and RMSE.

Web-Integrated Market Basket Analysis

- Developed a web-based application powered by Python scripts to perform market basket analysis.
- Implemented Apriori and FP-Growth algorithms to identify frequent itemsets and generate product recommendations.
- Integrated the Python backend with a simple web interface for dataset upload, analysis, and visualization.
- Utilized MySQL for transaction data storage and association rules, enabling real-time insights for cross-selling and recommendation systems.

SKILLS

- **Programming Languages:** Java, C/C++, Python, JavaScript
- **Web Development (Frontend):** HTML5, CSS, JavaScript, React.js
- **Backend Development:** Node.js, Express.js, Flask, Django, RESTful APIs, JWT Authentication, Session Management
- **Database Management:** MySQL, MongoDB, SQLite
- **Big Data & Distributed Computing:** PySpark
- **Version Control & Tools:** Git/GitHub, Docker, Postman, VS Code, Jupyter Notebook

CERTIFICATE

Columbia+ : Machine Learning ↗

- Gained foundations in supervised & unsupervised learning (regression, classification, clustering, dimensionality reduction).
- Applied mathematical concepts (linear algebra, probability, MLE) to machine learning models.
- Built hands-on coding projects for real-world problem-solving and data analysis.

Columbia+ : Prompt Engineering & Programming with OpenAI ↗

- Hands-on LLM development with OpenAI & DeepSeek APIs in Google Colab.
- Applied prompt engineering and built AI apps using LangChain & LlamaIndex.
- Developed prototypes for business automation, analytics, and content generation.

HackerRank - SQL (Advanced) ↗

- Learned query optimization, data modeling, and indexing for efficient database management.
- Gained hands-on experience with window functions and pivot operations for advanced data analysis.

Data Engineering for Beginners: Learn SQL, Python & Spark ↗

- Learned core data engineering concepts using SQL, Python, and PySpark.
- Built basic ETL pipelines and performed data processing on large datasets.

Deloitte Australia - Data Analytics Job Simulation ↗

- Completed a Deloitte job simulation involving data analysis and forensic technology.
- Created a data dashboard using Tableau.
- Used Excel to classify data and draw business conclusions.

AWARD

ISIH Champion - Internal Smart India Hackathon (2023 & 2024)

Qualified Finalist – Woodpecker's Hackathon

EXTRACURRICULAR

- President – Red Hat Club, Amity University.
- Led club initiatives promoting open-source, Linux, and DevOps tools.
- Organized workshops, hackathons, and tech talks with industry collaboration.
- Mentored members and fostered a strong technical community.