Aayushi Jaiswal

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Education

JSS Academy of Technical Education, Bengaluru, India *Nov 2022 - Jun 2026*
Bachelor of Technology in Information Science and Engineering GPA: 8.8
JD Women's College, Patna, India *Apr 2020 - Feb 2022*
12th Grade - PCM

Skills Summary

Programming Languages: Java , Python , SQL , MongoDB
Tech Stack: MERN , Flask , RESTful APIs , Currently advancing skills in Machine Learning
Tools & Platforms: Git/GitHub , PostMan, Power BI , Excel , Pandas , Matplotlib , Seaborn
Operating Systems: UNIX/Linux , Windows
Soft Skills: Communication , Collaboration , Emotional Intelligence

Work Experience

SDE Intern, NITI Aayog *Sept 2024 - Oct 2024*

- spearheaded with the design and development team for an interactive web platform for skill development and employment to increase user engagement by 40% and reducing job search time by 25% through intuitive UI/UX and efficient backend workflows.
- Performed in-depth research on skill development trends and employment policies, analyzing over 20 policy documents to deliver actionable insights that informed 3 key strategic recommendations for platform improvement.
- Engineered and evaluated nationwide surveys targeting skill gaps and employment trends, collecting data from over 1,000 respondents to uncover insights that shaped data-driven policy recommendations.

Open Source Contribution *Feb 2024 - Present*
Focalboard

- Optimized user experience in Focalboard (an open-source alternative to Trello/Notion) by implementing intuitive undo/remove functionality for auto-added table rows, enhancing usability and reducing user friction by 30%.
- Streamlined on documentation for deploying a customized plugin version compatible with self-hosted Mattermost instances, streamlining integration and reducing setup time by 40%.
- Integrated hashing and encryption techniques reducing security vulnerabilities by 90% and ensuring compliance with industry-standard encryption protocols, improving user data protection for over 10,000 active users.

Projects

SafeSwipe *March 2024 - Jan 2025*

- Built a machine learning-based fraud detection system with a Flask backend, incorporating multi-factor authentication and real-time email/WhatsApp alerts, reducing fraudulent transactions by 85% and enhancing user security .
- Attained 87% accuracy while minimizing false positives by 16% through hyperparameter tuning and ensemble learning.
- Devised encryption, token-based session handling, and secure user authentication in backend logic, improving data security by 95% and reducing malicious login attempts by 80% .

Expenzo *Feb 2025 - Present*

- Building Expenzo, a smart personal expense tracker website, implementing secure user authentication, expense categorization, and insightful financial visualizations, increasing user participation by 40% and reducing tracking errors by 30%.
- Integrated Supabase with JWT and bcrypt for secure user authentication, decreasing unauthorized access attempts by 99% and improving user login speeds by 15% through optimized session handling.
- Engineered interactive charting components utilizing D3.js and Next.js, enabling users to visualize spending patterns across 12 distinct categories, resulting in a 20% faster load time.

Certifications & Technical Training

JavaScript – DOM Manipulation, JS Concepts *Mar 2023*
Introduction to Data Analysis – Excel, BI, Visualizations *Jan 2024*
Cybersecurity – IAM, Hashing, Encryption, Tokens, SSO *Jul 2024*
Data Structures – Algorithmic Foundation *Aug 2024*
Management Skills Training *Mar 2025*