Yash Shewalkar

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About me

Interests: Full Stack Development, Data Science, and always open to new opportunities and challenges.
A keen learner and a dedicated student with hands-on experience in full-stack development and foundational knowledge in ML and data science. Built projects including an image gallery, a quiz app in Java, and a credit card approval risk predictor. Primarily program in C++, with a strong grasp on Java and Python. Proficient in RESTful APIs and modern web frameworks, with the ability to translate problem requirements into real working solutions. Eager to work with a team and collaborate with tech experts to build amazing things.

Education

BTech	Artificial Intelligence and Data Science, VIT-Pune	**CGPA – 8.63**	**~2026**
HSC	Ambrosia Jr College, Nashik	**81%**	**2022**
SSC	English Medium School, Satana	**95.40%**	**2020**

Technical Skills

Programming:	**C/C++, Java, Python**
Web Development:	**Html, JavaScript, Tailwind, Node.js, Express.Js, React, Next.Js, Shadcn, Rest API**
Databases:	**MongoDB, MySQL**
Tools:	**VS Code, Google Colab, Postman, Git/Github, IntelliJ Idea**

Projects

Image Gallery: (Node.js, Express.js, MongoDB)   June 2024 - July 2024

- A full-stack image gallery application using NodeJS, Express, and MongoDB.
- Implemented user authentication with Passport.js and managed file uploads with Multer and UUID.
- Designed a responsive UI with EJS and a Masonry layout, incorporating elements from Codepen for enhanced user experience.

ANPR Based Entry System: (Python, OCR, OpenCV)   Apr 2024 - May 2024

- Established a real-time number plate detection system using Python, Streamlit, OpenCV, and Firebase.
- Used EASYOCR for character recognition, cross-verifying data with Firebase for accuracy and reliability.
- Developed a QR-code scanning feature to streamline the registration of unverified plates, integrating with email systems for automated requests.
- The verification takes less than 2 seconds.

Quiz App in Java: (Java, Swing UI, MySQL)   Apr 2024 - May 2024

- Built a user interface using Java Swing, following OOP principles to ensure a maintainable and scalable codebase.
- Designed and integrated a MySQL database with JDBC for seamless and reliable database management.
- Implemented CRUD operations along with essential features like student result tracking and MCQ exams.
- Incorporated both admin and user roles to provide a structured and efficient user experience.

Credit Card Approval Risk Predictor Model :   Jan 2024 - Feb 2024

- Preprocessed the CIBIL dataset having 61 columns and applied feature selection and dimensionality reduction, which reduced the features to 54.
- Conducted ANOVA tests, applied one-hot encoding, and XGBoost to improve the model's predictive performance.
- Achieved 71% accuracy in categorizing approvals into four distinct groups.

Publications

- **Fake News Detector for Combatting Misinformation in Digital Age**: International Conference on Machine Vision and Augmented Intelligence 2023