AYUSH ALEX THOMAS

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DESCRIPTION

Final-year Computer Science Engineering student with a strong foundation in programming, machine learning, and software development. Skilled in Python, C++, and data structures, with hands-on experience in real-world projects involving AI and web apps. Quick learner, team player, and passionate about solving problems through technology.

PROFESSIONAL EXPERIENCE

Product & QA Intern

Deskday Technologies Pvt. Ltd., Kakkanad   **May 2025 - Jun 2025**

- Performed manual testing and documented bugs to ensure product quality and usability.
- Created and maintained technical documentation for internal product features and workflows.
- Conducted competitive analysis to identify feature gaps and suggest improvements in Deskday's SaaS platform.
- Collaborated with the product and engineering teams to validate features and align documentation with product updates.

Full Stack Developer Intern

Litmus7, Kakkanad   **Jun 2024 - Jul 2024**

- Worked on a full-stack development project involving both frontend and backend components.
- Gained hands-on experience using Postman for testing and validating RESTful APIs.
- Developed a strong foundational understanding of Python for backend development tasks.
- Collaborated in a team environment, following best practices in code structuring and version control.

PROJECTS

Alzheimer's Detection Web App

Mini Project | Team of 4 | Flask, Machine Learning, Supabase

- Developed a full-stack web application to detect early signs of Alzheimer's through cognitive tests.
- Integrated secure user authentication and session management using Supabase.
- Implemented interactive tests including handwriting analysis, memory matrix, and Stroop test.
- Deployed ML models (Random Forest, XGBoost, Gradient Boosting) for real-time cognitive risk scoring.
- Achieved 88% prediction accuracy and visualized user results in an interactive dashboard

Internship Portal Web App

Academic Project | Team of 4 | Full Stack | Firebase, HTML/CSS, JavaScript

- Built a full-stack web application to connect students with internship opportunities and enable companies to post listings.
- Implemented Firebase Authentication to manage secure login and role-based access for students and recruiters.
- Used Firebase Firestore to handle internship data, user profiles, and applications in real-time.
- Designed a clean, responsive UI allowing users to post, view, and apply for internships seamlessly.
- Collaborated in a 4-member team, handling full project lifecycle from planning to deployment.

Full-Stack MCQ Test Application

Personal Project | Full Stack | MySQL, HTML/CSS, JavaScript

- Built a customizable MCQ testing platform allowing students to take subject-specific tests with assigned question types, time limits, and marking schemes.
- Developed a complete backend using MySQL to manage users, subjects, questions, test parameters, and results.

Personal Finance Dashboard with Email Integration
Personal Project | Full Stack | Gmail API, React, Firebase

- Built a personal finance dashboard that automatically fetches and analyzes transaction data from emails to track income and expenses.
- Integrated with Gmail API to extract relevant financial data from email receipts and statements.
- Parsed email content using custom logic to classify transactions by category, date, and type (expense/income).
- Designed a dashboard UI to visualize spending patterns, income flow, and summaries using interactive charts.
- Enabled real-time tracking and monthly summaries, improving financial awareness and budgeting.

Cardiovascular Disease Prediction using Machine Learning
Personal Project | Python, scikit-learn, Matplotlib, Pandas

- Built multiple ML models (SVM, KNN, Decision Tree, Logistic Regression, Random Forest) to predict cardiovascular disease from health data.
- Handled data pre-processing, cleaned datasets, and engineered features to enhance model accuracy.
- Generated correlation matrices and visualizations to explore key risk factors and data patterns.
- Evaluated model performance and achieved strong predictive accuracy, showcasing potential for real-world healthcare impact.
- Pursued this project out of personal interest in combining AI with healthcare to solve meaningful problems.

TECHNICAL SKILLS

Languages: Python | JavaScript | C/C++ | SQL | HTML | CSS | R
Frameworks & Libraries: Flask | React | scikit-learn | XGBoost | Pandas | Matplotlib | Firebase | Supabase
Databases: MySQL | Firebase Firestore | Supabase
Tools & Platforms: Git | GitHub | Postman | Gmail API | VS Code | Google Colab

EDUCATION

Rajagiri School of Engineering & Technology, Kerala, India   **2022 - 2026**
Bachelor of Technology in Computer Science and Engineering | **8.91 CGPA**
- Along with Honors in Machine Learning

Believers Church Residential School, Kerala, India
Senior Secondary School (XII - CBSE) | 94.2 %   **2021 - 2022**
High School (X - CBSE) | 94 %   **2019 - 2020**

ADDITIONAL INFORMATION

- **Languages:** English, Malayalam, Hindi.
- **Certifications:** Introduction to Machine Learning - NPTEL, Ethical Hacking - NPTEL, Getting Started with Artificial Intelligence -IBM SkillsBuild.
- **Interests:** Vibe coding, Football, Gaming.