

Final Year Project Ideas for CS & Developer Students

Web, Mobile, Cross-Platform, AI/ML, and Data Science

Website Name: haas.dev

Website Link: <https://dev-roast-app.vercel.app>

Introduction

Choosing a final year project can be overwhelming for CS students.

This guide provides **practical, high-impact project ideas** across multiple domains: web, mobile, cross-platform, AI/ML, and data science.

1. Web Development Projects

- **E-Commerce Platform** – Full-stack website with authentication, payment integration
 - **Blog CMS** – Content management system for blogs with rich text editor
 - **Portfolio Builder** – Dynamic portfolio generator for students and freelancers
 - **Job Portal** – Job listings, applications, admin dashboard
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2. Mobile App Development Projects

- **To-Do List App** – CRUD, notifications, and local storage
 - **Fitness Tracker** – Track workouts, calories, and generate reports
 - **Recipe App** – API integration for recipes, favorites, and search
 - **Expense Tracker** – Charts, categorization, and offline storage
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3. Cross-Platform App Projects

- **Chat Application** – Real-time messaging with Firebase/Socket.io
 - **News Aggregator** – Fetch news from multiple APIs with notifications
 - **Quiz App** – Timed quizzes, leaderboard, and scoring
 - **Weather App** – Location-based forecasts and API integration
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4. AI & Machine Learning Projects

- **Handwritten Digit Recognition** – MNIST dataset using Python and TensorFlow
 - **Spam Email Classifier** – NLP-based email filtering
 - **Stock Price Prediction** – Time-series forecasting with ML
 - **Customer Segmentation** – Cluster analysis for marketing data
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5. Data Science Projects

- **Sales Data Analysis Dashboard** – Visualizations with Python or Power BI
 - **Movie Recommendation System** – Collaborative filtering with user ratings
 - **Student Performance Prediction** – Predict exam outcomes based on features
 - **Traffic Analysis Tool** – Analyze vehicle traffic patterns from datasets
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6. Best Practices for Final Year Projects

- Choose a project aligned with your career goals
 - Keep the scope realistic and achievable
 - Document code, architecture, and workflow
 - Include version control (Git/GitHub) for collaboration
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7. Key Takeaways

- Final year projects are **opportunities to apply skills practically**
 - Focus on projects that are **portfolio-worthy and problem-solving**
 - Cross-domain projects (web, mobile, AI/ML, data science) increase versatility
 - Hands-on experience strengthens your **job readiness and confidence**
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