V4 Gauntlet AI Program Design

Overview

This table outlines Gauntlet AI, an intensive 12-week AI engineering crucible that transforms ambitious developers into elite AI engineers through a series of increasingly challenging projects.

Project Breakdown

Each project represents a gauntlet of its own:

Part 1: The Speed Build

- Students race to rebuild a complex, production-grade application using modern Al
 tools
- 2. Learn to architect and build systems 10x faster while maintaining quality code
- 3. Create robust, scalable foundations ready for AI enhancements

Part 2: The AI Evolution

- 1. Transform the basic app by integrating cutting-edge AI features
- 2. Combine multiple AI services to create genuinely valuable capabilities
- 3. Focus on making AI features intuitive and essential to users

Success isn't just measured in code – but in user adoption, technical excellence, and community impact.

The stakes are real:

- 1. Each project is judged on both technical merit and real-world impact
- 2. Every graduate receives the ultimate prize: a guaranteed \$200k/year position at a leading AI company
- 3. Projects are publicly visible, building each student's professional portfolio and industry reputation
- 4. The pressure of time constraints and competition forges classroom knowledge into practical expertise

This is not a traditional curriculum – it's a proving ground for the next generation of AI engineers who can both build robust systems and enhance them with transformative AI capabilities. Each row in this table represents a comprehensive challenge that tests students' ability to execute under pressure, innovate with AI, and deliver measurable impact.

Legend

Stage & Weeks: The curriculum is organized into three stages, with each stage spanning 4 weeks. The first two stages consist of individual projects, while the final stage is dedicated to team-based capstone work.

Project: The mission and stakes of each project - what students are trying to achieve, who it impacts, and why it matters. This sets the context and motivation for both the rebuild and Al enhancements.

Deliverables: Required project milestones and outputs that demonstrate mastery of both development and AI capabilities.

Key AI Skills: Core AI engineering competencies that students will develop through implementing the enhancements. These skills build progressively throughout the curriculum.

Target App: The established application that students will use as a foundation for their rebuild. Students recreate core functionalities of these popular apps to demonstrate fundamental engineering capabilities.

Rebuild Success Criteria: Specific, measurable requirements that students must meet to demonstrate they have successfully rebuilt the core functionality of the target app. These criteria ensure technical competency and feature completeness.

Al Enhancements: Novel Al features that students will integrate into their rebuilt application, extending beyond the target app's original functionality.

Success Metrics: A combination of: Technical metrics: How well the AI performs its intended function (accuracy, speed, reliability), user adoption metrics: Active users,

engagement rates, viral coefficients, and developer community impact: GitHub stars, forks, community contributions

Summary Table

Stage	Weeks	Project Description	Deliverables	Key Al Skills	Similar App	Rebuild Success Criteria	Potential Al Enhancements	Success Metrics
1	1	Transform workplace communication by giving every user a professional digital twin that can participate in meetings, the control of the contr	Link To BrainLift File Uits, Eor App They Bult These with Accumulatility Video Tog Experts in BrainLift Topic	Foundation Model Mastery Speck synthesis and facial simulation models annuation model annuation model annuation model annuation model provide model performance optimization Post of the model performance optimization annuation model annuation model annuation model annuation model annuation teatures annuation teatures annuation annuation communication communication communication annuation communication management communication patterns scross service teatures propriets communication patterns scross remote teatures specific conversation communication patterns scross remote teatures propriets presence and autheritatity in communication	Slack	Bedistre rescaping Chamelities represented. Rish sharing & search User presence & datase Thread support Credy reactions	Al avoitar that represents users in conversations and meetings in conversations. Vice synthesis matching user and visual rendering. Gesturele-greation generation. Fersonality mirroring.	Audiar response starroy-da 59% or higher accurate gesture or expression matching to accurate message tone
1	2	Transform static document storage into an intelligent knowledge engine that not only organizes information but actively synthesizes and creater new insights processed in the state of the	Link To BrainLift File URL for App They Built GirlsLabCode Link The Link To BrainLift Yopic Tag Experts in BrainLift Yopic	RAG a. Document processing and chunking b. Semantic search implementation C. Vector of statulate optimization C. Context Maching a context search implementation C. Context Maching a context search implementation c. Information of context b. Context window optimization c. Information distillation 3. Q in Production AI Apps a. Context generation pipelines	Google Drive	File/folder structure management Document creation & editing Real-time collaboration features Version history Safety permissions respectively Safety permissions tracking Safety functionality Sync files with your Google Drive, Dropbox, KCloud, etc.	Semantic search across all documents. Auto-caregorization & tagging. Smart folder suggestions. Content synthesis across docs. Automatic bioginessistens generation. Executive summary creation. Related content discovery. Microwledge graph visualization.	Search relevancy score >85% Content synthesis coherence rating 4.5/5 50% increase in content reuse

				Batch processing systems Quality assurance for complex A systems BrainLift Skills Create knowledge graphs showing how to organize and synthesize internal documentation				
1	3-4	Revolutionize nutrition tracking by eliminating manual food logging wanking healthy storage (fortices strong hinzard vioual recognition and detailed understand and improve their distribution).	Link To BrainLift File URL for App They Bult Gintuth Code Link Gintuth Code Link Tag Experts in BrainLift Topic	Foundation Model Mastery	MyFitnessPal	Food database & search Macroineconstruct reading Macroineconstruct reading Mail loggin plentage Fregress tracking Basc analysication User profile management Search fasterencharing	Multi-tern meal photo analysis Periorion size estimation Ingredient decomposition A Nutritional valuer calculation Nutritional value parties manalysis Necipe reconstruction	95% food item recognition accuracy Nutrient calculation accuracy>95% Recognition time <2 seconds
2	5	Democratize professional investment strategies by creating an Al financial advisor that provides personalized	Link To BrainLift File URL Enr App They Built Gettach Cock C Link ability Video Tag Experts in BrainLift Topic	RAG A Financial data processing B. Real-time information retrieval C. Market contest integration C. (May Real Contest in Contest Today Contest Today Contest Contest Today Contest C. Real-time data streams Production AN Apps. Real-time data streams Production AN Apps. Real-time data streams C. Automated trading logic Branchitt Statis Integration approaches Indeed proceedings of the AP Integration one patterns in how AP Integration proceptions in how AP	Robinhood	Real-sime trading interface Pertriols tracking Heritals tracking Active tracking authors Within the second of the second	Personal Al financial advisor Portfolio optimization engine Risk assessment modeling Marker scienceria analysis Constitution of the control of the con	Market pattern recognition accuracy rate +80% Real-time analysis latency <600ms