

# ROHAN PRAVEEN CHAVAN

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## EDUCATION

<b>Virginia Polytechnic Institute and State University</b> <i>M.S. in Computer Engineering, GPA: 3.68/4.0</i> – Relevant Coursework: Machine Learning, Cloud Computing, AI Systems Design, Advanced NLP, Operating Systems	Aug 2024 – May 2026 Blacksburg, VA, USA
<b>K.J. Somaiya College of Engineering</b> <i>B.Tech in Information Technology, GPA: ~3.8/4.0 (converted)</i> – Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems	Aug 2020 – May 2024 Mumbai, India

## EXPERIENCE

<b>Generative AI Intern</b> <i>AutoUnify (Remote)</i> – Designed 23+ TypeSpec models for CDK Repair APIs using Cursor's AI-powered code completion, cutting schema duplication by 40% and saving 20 developer hours/week for 5+ teams. – Built Vertex AI + Gemini pipeline on Azure, auto-generating and validating schemas from unstructured inputs, reducing manual validation time by 25 hours/week across 10+ services. – Refactored legacy field types with Cursor's BugBot, enforcing naming conventions to improve API type safety, reducing bug reports by 15% for 12 developers. – Implemented GitOps with GitHub Actions and Pytest, increasing CI/CD merge velocity by 20% and enhancing QA confidence for scalable deployments. – Skills: TypeSpec, Vertex AI, Gemini, OpenAPI, Azure, Cursor, Git, GitHub Actions, Pytest, REST APIs	May 2025 – Present
<b>Intelligent Process Automation Intern</b> <i>Colgate-Palmolive GBS</i> – Developed 3 NLP chatbots for O2I and S2P processes, leveraging Windows OS-level intent recognition to automate 70% of 1,000+ weekly FAQ queries, saving 50 staff hours/month for 200+ users. – Integrated ChatGPT-based REST API with custom intent recognition (Logistic Regression, Decision Trees) using PyTorch, cutting response latency from 15s to 10s. – Led full-stack React.js chatbot with BERT on Visual Studio Code, deployed via GitHub Actions, improving user satisfaction by 20% per surveys of 150+ employees. – Designed modular MongoDB backend with Pytest automation, enabling 30% faster model retraining for 5+ enterprise workflows. – Skills: Python, C++, NLP, ChatGPT API, BERT, React.js, PyTorch, TensorFlow, MongoDB, GitHub Actions, Pytest, Visual Studio Code	Jan 2024 – Jun 2024 Mumbai, India
<b>Team Member - Amazon Nova AI Challenge</b> <i>Virginia Tech (Team HokieTokie)</i> – Led red teaming for Amazon Bedrock models, creating a prompt-attack taxonomy (e.g., code injection, insecure cryptography) identifying 50+ vulnerabilities, enhancing model safety. – Built ShieldBot with GPT-4 and Claude on Azure, achieving 56ms latency to detect and block 50+ adversarial prompts daily for 10,000+ queries. – Developed adversarial severity classification with DeepSeek, reducing deployment risks by 30% and informing alignment protocols for 3+ models. – Collaborated with Amazon researchers to integrate telemetry dashboards via Azure Kusto, improving model monitoring for safety-critical applications. – Skills: Amazon Bedrock, Azure, Red Teaming, Prompt Engineering, Claude, GPT-4, DeepSeek, AI Safety, Kusto	Jan 2025 – Present Blacksburg, VA

## ACADEMIC PROJECTS

<b>SentiMint – AI Stock Analyzer   LangChain, GPT-3.5, Selenium, Next.js, Flask [GitHub Code]</b> – Led LangChain-powered multi-agent system with real-time sentiment analysis, achieving 85% stock trend accuracy across 500+ Yahoo Finance datasets at Agent Hacks 2024. – Built debate-driven recommendation system with bold/cautious personas using Cursor's agent mode, reducing decision latency by 40% vs. manual analysis for 100+ users. – Designed GPT-3.5 reasoning module with token-wise confidence scoring, improving risk assessment accuracy by 25% for high-stakes trades. – Skills: LangChain, GPT-3.5, Selenium, Yahoo Finance API, Next.js, Flask, Azure, Cursor, Prompt Engineering
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## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, SQL, Go,  
**Frameworks & Libraries:** React.js, PyTorch, TensorFlow, LangChain, Pandas, HuggingFace  
**Tools:** Cursor, Visual Studio Code, Git, GitHub Actions, Pytest, Jira  
**Cloud/DevOps:** Azure (Cosmos DB, Kusto), AWS (Lambda, API Gateway, S3, Dynamo DB), Google Cloud, Docker  
**Databases:** MongoDB, Cosmos DB, MySQL, Firebase, Supabase  
**Integration:** REST APIs, OpenAI APIs, Chatbots, CI/CD, AI/ML models