

Ronit Amar Bhatia

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Education

Cornell University Master of Engineering in Engineering Management	Aug 2024 – May 2025
University of California, Davis Bachelor of Science in Computer Science Minor in Technology Management	Sept 2020 – June 2024

Experience

Software Engineer Intern , Gallox Semiconductors (Remote) <ul style="list-style-type: none">Developed automation solutions for power device characterization, improving testing efficiency.Engineered a real-time data visualization system in Python, accelerating debugging and analysis during lab evaluations.Developed Python APIs to interface with lab instruments, automating data acquisition and control during device testing.	Nov 2024 – Jan 2025
Student Research Assistant , Cornell CALS <ul style="list-style-type: none">Utilized machine learning techniques (k-means clustering, regression models) to analyze crop-based GHG emissions.Built Python data pipelines to preprocess geospatial crop emissions data, enhancing feature consistency for ML models.Implemented a clustering algorithm to group crops by emission intensity, enabling more targeted mitigation strategies.	Aug 2024 – Dec 2024
Software Developer Intern , ColentAI (Remote) <ul style="list-style-type: none">Enhanced generative AI model performance through targeted fine-tuning and hyperparameter optimization.Integrated external APIs to streamline data acquisition and improve training efficiency for AI models.Developed an automated skill taxonomy generator leveraging NLP and keyword extraction techniques.	Jan 2024 – Mar 2024
Data Analyst Intern , Cardinality-AI (Remote) <ul style="list-style-type: none">Ingested and transformed structured data with SQL to enable efficient, scalable machine learning pipelines.Performed feature engineering and data validation to optimize model performance, reducing response time by 5%.Utilized MATLAB to analyze and interpret trend patterns in complex datasets for actionable insights.	June 2021 – Sept 2021

Projects

UnClogAI: AI-Powered Workflow Bottleneck Detector [GitHub] <ul style="list-style-type: none">Developed an AI workflow automation tool using graph analytics to detect bottlenecks and improve process efficiency.Designed a multi-agent system with LangGraph and Hugging Face LLMs for predictive insights and risk assessment.Optimized data pipelines and graph computations to enable efficient, real-time workflow analysis at scale.	Aug 2025 – Sept 2025
Startup Planner Agent: AI-Powered Strategic Planning Tool [GitHub] <ul style="list-style-type: none">Designed a modular multi-agent architecture using Python to orchestrate local LLM tasks with LLaMA 3 via Ollama.Built agent-based workflows to automate startup analysis, including market research, SWOT, and MVP planning.Delivered an interactive web app with exportable outputs, enabling offline strategic planning and stakeholder readiness.	June 2025 – June 2025
Excellensight: AI-Powered Feedback Analyzer , Cornell University [GitHub] <ul style="list-style-type: none">Built a custom CNN-BiLSTM-Attention model to classify ChatGPT user reviews and generate insight summaries without using large language models.Built a full NLP pipeline covering preprocessing, training, evaluation, and automated Markdown/HTML reporting.Achieved over 98% validation accuracy on 10K+ reviews; reports include key trend summaries and visualizations.	Mar 2025 – May 2025
Taskify: AI-Powered Task-to-Team Member Matching [GitHub] <ul style="list-style-type: none">Built a Transformer model fusing embeddings and structured data to predict task-member fit with 89.6% accuracy.Generated and labeled a synthetic dataset (40K+ samples) using sentence-transformers and feature engineering.Deployed a real-time Streamlit app to recommend top-ranked teammates with confidence scores and reasoning logic.	Mar 2025 – May 2025

Technical Skills

Programming Languages: Python, C/C++, SQL, Go, JavaScript, HTML, CSS, Lisp, Prolog, MicroPython

Machine Learning & AI Tools: TensorFlow, PyTorch, Scikit-learn, LangChain, Ollama, LangFuse, LangGraph, Strands Agents, AWS Bedrock, AssemblyAI, Resend

Tools & DevOps: Next.js 15, React 19, Node.js, Supabase, Clerk, TanStack Query, Docker, GitHub, GitHub Actions, VSCode, MATLAB, JIRA, Power BI

Cloud Platforms: Vercel, AWS (S3, EC2, Lambda, SageMaker, RDS, DynamoDB), GCP (BigQuery, Vertex AI, Cloud Run)