

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.Designed a real-time data visualization tool for test measurements using Python, improving debugging efficiency during lab evaluations.	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.Developed Python scripts to streamline the preprocessing of geospatial crop emissions data, improving consistency across datasets.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 fine-tuning and hyperparameter optimization.Conducted API research and integration to enhance data gathering and model training.Developed an automated skill taxonomy generator using natural language processing and keyword extraction.	Jan 2024 – Mar 2024
Data Analyst Intern , Cardinality-AI (Remote) <ul style="list-style-type: none">Ingested and transformed structured data using SQL to support machine learning pipelines.Performed feature engineering and data validation to improve model response time by 5%.Leveraged MATLAB to identify and interpret trend patterns in complex data sets.	June 2021 – Sept 2021

Projects

Startup Planner Agent: AI-Powered Strategic Planning Tool , Cornell University [GitHub] <ul style="list-style-type: none">Built a local multi-agent LLM pipeline using Streamlit and LLaMA 3 (Ollama) to generate startup strategy reports.Automated business workflows for idea parsing, market research, SWOT analysis, and MVP planning using agents.Streamlined offline AI prototyping with exportable strategy outputs for iteration, pitch readiness, and stakeholder review.	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.Developed a full NLP pipeline: preprocessing, model training, evaluation, and automated Markdown/HTML report generation.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 custom Transformer model combining embeddings and structured features to predict task-member compatibility 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
Rock Paper Scissors CNN on ESP32S3 , Cornell University <ul style="list-style-type: none">Trained and deployed a lightweight CNN on-device (ESP32S3) using MicroPython and TinyMaix for real-time gesture recognition.Achieved 56%+ accuracy on-device across labeled test images with live demo performance.	Feb 2025 – Mar 2025

Technical Skills

Programming Languages: Python, C/C++, SQL, Go, JavaScript, HTML, CSS, MicroPython, Lisp, Prolog
Machine Learning & AI Tools: TensorFlow, PyTorch, Scikit-learn, LangChain, Ollama, PydanticAI, Unsloth, Windsurf
Tools & DevOps: Git, GitHub, Docker, VSCode, MATLAB, JIRA, PowerBI
Cloud Platforms: AWS, Google Cloud Platform (GCP)