

Gaurav Prakash

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EDUCATION

University of Maryland <i>Master's in Data Science</i>	College Park, MD Sep 2025 – Present
National Institute of Technology Karnataka <i>Bachelor of Technology in Information Technology</i>	Surathkal, Karnataka Dec 2021 – May 2025
The Indian School <i>Higher Secondary XII CBSE, Percentage - 96.2%</i>	Bahrain Apr 2019 – June 2021

EXPERIENCE

Analytics Intern GlobalFoundries	April 2025 – August 2025
<ul style="list-style-type: none">Developed NewHire Assistant, a RAG chatbot to assist new employees with queries on company policies, onboarding steps, and internal procedures.Implemented location-based policy routing and integrated GPT-4o for generating relevant and accurate responses.Deployed the chatbot on Microsoft Teams using Copilot Agents, tested by over 100+ active users.Contributed to a Candidate Success Modeling project by creating an NER-based resume parser to extract key details and compute a job fitment score against job descriptions.	
Data and AI Intern IBM India	May 2024 - July 2024
<ul style="list-style-type: none">Worked with IBM Consulting's Data and Technology Transformation (DTT) team.Designed a Retrieval Augmented Generation (RAG) sales chatbot for Parle sales, integrating SQL and PDF data queries for tailored sales pitches.Implemented a WhatsApp interface using Twilio sandbox and a FastAPI backend for LangChain's LLMs.Performed geospatial analysis with Google Maps API to optimize Parle's sales strategy using local demographic data.	

PROJECTS

Inductive and Scalable Twitter Bot Detection via Heterogeneous GraphSAINT PyTorch	Jan 2025
<ul style="list-style-type: none">Modelled Twitter as a heterogeneous graph with edges encoding multiple user-tweet-list relations.Implemented a proof-of-concept GraphSAINT prototype using IMDb dataset, matching state-of-the-art node classification performance.Applied edge-type normalization on Twibot-22, enhancing learning over skewed connectivity patterns.Validated the inductive generalization ability on Twibot-20, achieving 87.38% F1-score.	
Refining LLMs with RL for Human-like Text Generation Research Paper	Jan 2024 – Apr 2024
<ul style="list-style-type: none">Applied Reinforcement Learning using Proximal Policy Optimization (PPO) to fine-tune a FLAN-T5 model for dialogue summarization, reducing AI detectability while preserving meaning.Performed Parameter Efficient Fine-Tuning using LoRA (Low-Rank Adaptation) to optimize model weights without full retraining.Achieved a 28% reduction in AI-detectable content compared to baseline outputs.Presented at IEEE CONECC-T-2024, IISc Bangalore.	
Campus Food Delivery Web App with Django Python, Django, Bootstrap	May 2023
<ul style="list-style-type: none">Developed a user-friendly web application enabling students to select restaurants, choose food items, and place delivery orders.Implemented an admin dashboard for restaurants to manage orders and update statuses.Created a customer dashboard displaying order history and live order statuses.Integrated PayPal API for secure payments.	

TECHNICAL SKILLS

Languages: Python, C++, MySQL, HTML/CSS, JavaScript
Libraries/Frameworks: LangChain, Django, TensorFlow, PyTorch, NumPy, Matplotlib, React.js
Coursework: Data Structures and Algorithms, Operating Systems, Computer Networking, Data Analytics, Database Management Systems, Natural Language Processing, Computer Vision