

Yash Lalwani

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science, Minor in Data Science

New Brunswick, NJ

(Senior) Expected May 2027

- **GPA:** 3.85/4.00 | **Awards:** Dean's List (4×)
- **Relevant Coursework:** Deep Learning & AI, Machine Learning Principles, Object-Oriented Software Development, Algorithm Design & Analysis, Applied Data Science, Data Structures & Algorithms, Computational Programming in Python, Systems Programming in C, Computer Architecture & Assembly Language, Programming Languages & Compiler Concepts, Discrete Structures

EXPERIENCE

AI/ML Research Assistant & Automation Engineer

Oct 2025 – Present

Rutgers University - Bloustein School

New Brunswick, NJ

- Designed and deployed end-to-end Python data pipelines to automate data ingestion, cleaning, and analysis across large-scale datasets, reducing manual processing effort by 85% and significantly improving workflow efficiency.
- Applied NLP techniques and Hugging Face APIs to evaluate and benchmark LLM performance across 5,600+ prompt-response pairs, using trend analysis to identify model strengths and improve evaluation accuracy by 20%.
- Queried and managed 20,000+ records from relational databases (MS Access/SQL), developing automation scripts and visualizations (Matplotlib, Plotly) that reduced data preparation time by 40% and surfaced clearer insights.

AI Extern

Sep 2026 – Present

Pfizer

Remote

- Built AI-powered document processing pipelines using OCR (Tesseract, PaddleOCR) and RAG to extract and classify data from pharmaceutical vendor documents.
- Developed a RAG-based document retrieval system using LlamaIndex and open-source LLMs (Mistral, Phi-2), optimizing retrieval through chunking and retrieval strategies.
- Evaluated OCR accuracy, RAG retrieval quality, and routing performance end-to-end, benchmarking model trade-offs and delivering deployment recommendations through a technical report and interactive demo UI.

Model Validation Expert (MOVE) Fellow

Nov 2025 – Dec 2025

Handshake AI

Remote

- Delivered high-quality human-in-the-loop evaluations to improve frontier Large Language Models.
- Evaluated model outputs for reasoning, accuracy, clarity, and instruction following to improve reliability and response quality.

PROJECTS

MyGPT | *OpenAI API, JavaScript, MongoDB, Express, React, Node.js*

Deployed – MyGPT

- Built a full-stack, AI-powered chat application integrating OpenAI's GPT API for conversational capabilities.
- Implemented persistent chat history to maintain conversational context across multiple user sessions.
- Developed a responsive, user-friendly UI that emulates the ChatGPT interface for enhanced user experience.

Newsly.AI | *Python, Streamlit, pandas, scikit-learn, Matplotlib, Web Scraping*

Deployed – Newsly.AI

- Developed an AI-driven news platform using Python and Streamlit to enhance news exploration.
- Implemented sentiment analysis and visualizations (charts and word clouds) to extract insights from articles.
- Integrated an assistant chatbot to offer personalized news discovery and facilitate user interaction.

Zerodha Clone | *AuthN, AuthZ, Chart.js, React, Node.js, Express, MongoDB*

Deployed – Zerodha

- Created a responsive trading interface that replicates core functionality and workflows of the Zerodha platform.
- Implemented secure authentication to enable dashboard access and safeguard user data and transactions.
- Integrated Chart.js for real-time visualization of stock holdings and enabled buy/sell order execution workflows.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, SQL, HTML/CSS

AI/ML: Machine Learning, Deep Learning, RAG, Agentic AI, LangChain, LangGraph, MCP, Hugging Face

Frameworks & Libraries: React, Next.js, Node.js, Express, Streamlit, pandas, NumPy, Matplotlib

Databases: PostgreSQL, MySQL, MongoDB

Developer Tools & Cloud: Git, Docker, Kubernetes, CI/CD, AWS, Linux, Postman, n8n, Power BI