

Yash Pratap Singh

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Portfolio

EDUCATION

Amity University

Graduation Date: June 2024

BTech in Computer Science Engineering

- Led campus learning initiatives as **GDSC Web Dev Lead** structured workshops on in-demand tech stacks and mentored peers in academic/coding challenges to elevate cohort skills

WORK EXPERIENCE

AndOr Communications Pvt. Ltd.

(Aug 2024 – Present)

Software Engineer

- Developed unified **backend API wrappers** using **Java** for the product **LightX**, abstracting authentication and request/response handling for both **third-party and in-house LLM** endpoints
- Integrated **contextual prompt-enhancement** for **LightX** that refines user **inputs to improve LLM output** relevance and boost response accuracy
- **Automated** the email-marketing workflow using **Python** scripts and **Bash** to detect new DB records, collate and segment user lists, **cutting manual list-preparation time by 80 %** and accelerating campaign turnaround.
- Automated metadata updates for assets in **MongoDB** via **Python** scripts, leveraging the **OpenXL** library to save manual effort
- Managed **AWS S3** uploads with retry logic, **cutting failed uploads** to almost zero
- Built and maintained **React.js** components for the internal management tool, **enhancing UI** performance and achieving **20% functionality test coverage**

Bharat Intern

(Sep 2023-Nov 2023)

Data Science Intern

- Designed a **Neural Network** system for recognizing alphabets and numbers, **achieving 98% accuracy** on large datasets
- Created an **LSTM-based** web application for real-time data analysis, enabling data-driven decision making and boosting business performance by **25%**

PROJECTS

Reducto (<https://dashing-jelly-71664c.netlify.app/>)

- Crafted a web application using **Tailwind CSS** and **React** to analyze articles from user-provided links
- Applied **TextRank** and **SingleRank** algorithms for **30% more accurate** article summaries, enhancing user efficiency

THE-Watcher (<https://github.com/YPS7/THE-WATCHER>)

- Engineered **CLI** tool using **Python** that intercepts terminal commands, detects code execution errors in real-time, and **suggests AI driven fixes** to boost developer productivity
- Created **OS-specific wrapper** scripts for Windows and Unix to abstract command and path differences and **enable seamless cross-platform compatibility**

PRD Generator (<https://ai-prd-generator.vercel.app/>)

- Developed a **web app** using **Vite** that **generates PRDs** for “**vibe coding**” tools to build **Full-Stack apps** from a **single prompt** users choose AI providers (OpenAI, Groq, Anthropic, Gemini) and models to instantly spin up their projects.
- Integrated an **AI-analysis engine** by tweaking **Grok API** to assess idea originality, **conduct SWOT evaluations** and suggest enhancements, **enhancing decision-making** accuracy and **accelerating MVP validation**

AI Research Agent (https://github.com/YPS7/AI_Research_Agent)

- Engineered an **AI research assistant** using **LangChain** and **Google Gemini** solving the need for real-time, structured research
- Implemented **schema-validated responses** with **Pydantic**, **.env-based** key management, and a **modular agent architecture**, ensuring reliable, extensible tooling for **complex query handling**

SKILLS

Programming Languages: JAVA | JavaScript | Python | Bash

Development: React | SpringBoot | Nodejs | Nextjs | Express | SQL

AI: Vector Embeddings | Stats | LangChain

Design: Framer | Figma

CERTIFICATIONS

- Supervised Machine Learning (Stanford/DeepLearning.AI) – [View Here](#)
- Advanced Learning Algorithms (Stanford/DeepLearning.AI) – [View Here](#)