

Mayank Kumar

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EDUCATION

- Noida Institute of Engineering and Technology** Greater Noida, India
Bachelor of Technology - Electronics and Communication 2020 - 2024

SKILLS SUMMARY

- Programming & Scripting:** Python, Java, JavaScript
- Web Development & Frameworks:** HTML, CSS, React.js, Flask, FASTAPI, Django
- Cloud & Containerization:** AWS (EC2, S3, IAM), Docker, CI/CD Pipelines
- Database & Tools:** MongoDB, MySQL, Pandas, NumPy, Jenkins, Power BI, ETL Pipelines
- AI/ML:** Prompt Engineering, RAG, LangChain, Scikit-learn
- Test & Automation:** Selenium, Pytest, Git/GitHub, Web Scraping
- Soft Skills:** Leadership, Team Collaboration, Efficient Communication

EXPERIENCE

- Virtualways Technologies** Bangalore, India
Software Developer June 2024 - Present
 - Developed and deployed **RESTful APIs** and backend **automation workflows** using **Flask**, with working exposure to **Django**. Integrated third-party APIs like **AWS Marketplace** and **Deribit** to support real-time external data exchange.
 - Built automated **data pipelines** using **Python**, optimized workflows to reduce **data handling time by 40%**. Containerized services using **Docker** and used **CI/CD pipelines** via **GitHub Actions** and **Jenkins**.
 - Created **LLM-powered automation bots** with a scalable **Flask backend** and **Streamlit** for frontend, used **Gemini API** for natural language processing and **FAISS** for semantic search and retrieval.
- CURD Network** Bangalore, India
Software Engineer Intern February - April 2024
 - Developed **Python-based web scraping bots** using **Selenium** to extract and aggregate **100,000+ records** from **5+ websites**, improving data acquisition efficiency by **40%**. Implemented **error handling and debugging workflows** to ensure data consistency.
 - Built **robust data validation pipelines** to maintain the accuracy of **100,000+ user records**, enhancing system reliability and scalability by **25%**. Contributed to the platform's **initial user base growth** and seamless onboarding and engagement.
- GREYB Pvt Ltd** Chandigarh, India
Research Analyst Intern September 2023 - February 2024
 - Conducted in-depth analysis of **Standard Essential Patents (SEPs)** and **Prior art** projects within the 5G domain, ensuring compliance and novelty assessment.
 - Generated detailed reports and streamlined the analysis process for **5+ high-priority projects**. In addition, managed knowledge sharing platforms and collaborated with teams to document updates.

PROJECTS

- Customer Response Bot (AI-Powered Customer Service Solution):** Led **product strategy and development** for an AI-driven **customer response bot**, defining **feature sets** based on **customer pain points**. **Competitive analysis** on existing chatbots, influencing **feature prioritization decisions**. Designed and optimized **AI intent recognition**, improving **first-response accuracy by 25%**. **Collaborated with students** to integrate chatbot insights into customer experience workflows, reducing **support costs by 20%**. Implemented **A/B testing on chatbot responses**, improving **customer satisfaction scores by 15%**.
- Robnett Technologies (Full-Stack Startup Website):** Created a full-stack responsive website using **Django**, **REST APIs**, **HTML**, **CSS**, **JavaScript** and **Bootstrap** for **service showcasing and career submissions**. Integrated a Django-based admin panel for seamless back-end functionality and efficient data management. Postman for API testing and Pytest for back-end validation, ensuring data accuracy and error-free submissions. **Increased user engagement by 25% and ensuring a scalable platform**. Managed API documentation and user guides for seamless integration.

ACHIEVEMENTS

- Secured **2nd place in IIITD Pitch-Deck Event among 38 teams** for innovative tech-driven societal impact solution.
- Ranked in top **1,500/80,000 in Shark Tank India Season 2** for societal impact solutions.

CERTIFICATIONS

- AWS Certified Cloud Practitioner** – Amazon Web Services (AWS)
- Build AI Apps with ChatGPT, DALL-E, and GPT-4** – Coursera (Scrimba)
- Complete Python with DSA Bootcamp + LeetCode Exercises** – Udemy