

Prabhanshu Abhishek

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Recent Involvements

- **Question Answering chatbot** - Personal Project: [GitHub Link](#), [Google Colab link](#) Feb'24 - Apr'24
 - Implemented Retrieval Augmented Generation(RAG), a natural language processing (NLP) technique to reduce hallucination in Large Language models, thus making text generation more accurate.
 - **Skills used: MVC design pattern for the web application. OOP and SOLID principles**
 - Frameworks used: LangChain for data and machine learning; Chainlit for front-end.
- **UPSC Civil Services Examination(CSE)** July'19 - Mar'24
 - Appeared in 2022 and 2023 Interviews - within the top 0.25% of approximately 1 million applicants.
 - Developed a growth mindset, prioritizing continuous learning and skill development.
 - Enhanced teamwork and leadership skills by collaborating on challenging tasks, relevant to the exam.

Professional Experience

- **Software Development Engineer, Amazon** Jun'17 - July'19
Core Transportation Technology
 - Worked on services that forms the core of the Transportation organization and services that expose shipment tracking data to Amazon customers, support teams, and internal systems.
 - **Spearheaded the migration of Oracle Database to AWS Aurora PostgreSQL**, which required changes in multiple microservices, communicating with other teams such as DB Administrators, downstream teams, and making sure of data integrity given the extremely high throughput at Amazon Scale.
 - **Developed an internal web service, ScanInsertionTool**. Took charge of both front-end and partial back-end development, utilizing Java, Spring Boot, asynchronous processing, JavaScript etc.
 - **Skills used: Java, Spring, Spring Boot, AWS, Object-Oriented Programming, Microservices Architecture, Low-level design, System Design, Data structure, Algorithms, Git**
- **Software Development Engineer Intern, Amazon** May'16 - July'16
 - Quickly grasped and applied Java, AWS, Workflows, and Spring framework within a short timeframe.
 - Streamlined failure handling in Hawkeye alert system by implementing robust workflows to auto-generate notifications when alarms failed to retrieve status due to system glitches.

Academic Achievements

- **B.Tech, Computer Science & Engineering** 2013 - 2017
Indian Institute of Technology, Kanpur CPI - 8.6/10
- **KVPY Scholar** (2011-12) and **NTSE Scholar** (2010). Secured Rank 10 in RMO.

Other Relevant Academic Projects

- **SHARED Web app** - [GitHub Link](#) Aug'16 - Nov'16
 - Peer-to-Peer document sharing app that enables large file transfers among friends across devices.
 - Features: Access control, real-time streaming, multiple downloads and seeding, resuming capability.
 - Tools/Frameworks used: User Authentication using **Google's OAuth 2.0**, **Django** for implementing **MVC Design pattern**, webTorrent for seeding and downloading, JQuery and JavaScript
- **Large Scale Item Categorization**, Prof. Harish Karnick - [GitHub Link](#) May'15 - June'15
- **Sentiment analysis of brands based on Twitter Data** - Takneek'14 Aug'14

Technical Skills

- **Programming Languages:** Java, C++, Python, Bash
- **Frameworks/Tools:** Spring, Spring Boot, Spring MVC, JUnit, Mockito, Django, Bootstrap
- **Core Skills:** Algorithm, Data Structure, Object-Oriented Programming(OOP), Microservices Architecture, Amazon Web Services(AWS), System Design, Proficiency in debugging, Unit testing, Operating Systems, Version Control/Git, Teamwork
- **AWS Services:** SNS, SQS, S3, EC2, DynamoDB, SWF, Aurora, CloudSearch, CloudWatch, IAM