Priyanshu Kumar

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EDUCATION

BTech (Electronics and Communication Engineering)	2020-24	Delhi Technological University, New Delhi	7.83 CGPA
CBSE(Class XII)	2020	OPG World School, New Delhi	81.8%
CBSE(Class X)	2018	Shanti Gyan Niketan Sec. School , New Delhi	90.6%

WORK EXPERIENCE

Software Development Engineer (SDE) | ProcureNet   Remote , Hong Kong SAR | July 2024– Present
- Implemented **Retrieval-Augmented Generation (RAG)** for searches, enabling file uploads with advanced querying, integrating **Milvus** as Vector Db, building the backend in **Node.js** and utilizing prompt engineering with **LLMs** like **Qwen72B** and **LLAMA.**
- As part of the founding team, I developed media streaming from Large Language Models, revamped the UI/UX with Next.js.

Software Development Engineer (SDE) Intern| InfoEdge Pvt. Ltd. (Naukri.com)   Noida, India | May 2023 – August 2023
- Worked on semantic search on a set of resumes by converting them into **embeddings** and querying them using **Large Language Models** using research based approach to experiment various **AI frameworks**, **Vector Databases** with **Prompt Engineering**.
- Built a Full-stack Chatbot application to communicate making a clean UI for the system making it feasible for the users to query the vector database and the small folders..

Co-Founder | DAPPNEST   New Delhi, India | Dec 2022 – May 2023
- Co-founded a startup with 2 other people to develop an **algorithm-based crypto trading** platform targeted for the **retail investors**
- Conducted market surveys and market research, initial trends showing **80%** acceptance in demographics **18-35** and 60% overall.
- Implemented the basic algorithm by checking moving average, Relative Strength Index, Bollinger Bands, and MACD to reach a success rate of **72%**.

PROJECTS

WEB SCRAPER- LLM-MILVUS - Developed a system for web crawling up to 5 levels deep using **BeautifulSoup** &   Link
Scrapy. Implemented advanced **chunking and NLP techniques** for **data processing**. Created a vector database with **Milvus** using **HNSW indexing**. Utilized hybrid retrieval methods **(BM25, BERT)** and an **LLM** for effective question answering.

QUESTION PAIR DETECTION USING NLP & ML MODELS - Developed a question pair detection model combining   Link
7 features **(word count, trigram count, etc.)** with 5 machine learning algorithms **(Linear Regression, Logistic Regression, XGboost, KNN, Random Forest).** Achieved highest accuracy of **78.73% with Random Forest and bag-of-words method**, showcasing ability to design and optimize NLP models for text analysis tasks.

VIDHAN: THE LEGAL BOT - Developed a **Full Stack ChatBot** for legal assistance under **Ministry of Legal Affairs**   Link
creation of **SIH(Smart India Hackathon)**, Powered by React, Flask, LLM, Prompt Engineering and cutting edge technologies
for ex. Generative AI, Langchain and Openai.

CHO-VIETNAM & CURRY CLUB - Developed a **Full Stack Website** that includes **Table Reservation System of the**   Link
restaurant & an **Admin Panel** for restaurants in Delhi & Germany.

CO-CURRICULAR

- Selected as the **top teams** from DTU to qualify for the 2nd round of the **International Rover Design Challenge 2021** by Mars Society South Asia , from **over 50 teams**.

SKILLS

Analytical: SQL, Microsoft Office Suite (Excel, PowerPoint, Word, Outlook), Canva, Figma, Python (Pandas, NumPy, Scikit Learn)
Frontend: HTML, CSS, Bootstrap, ReactJS, JavaScript, TypeScript, Streamlit, NextJS, Tailwind, Vanilla, Shadcn, Redix UI.
Backend & DB: MongoDB, NodeJS, Solidity, SQL, NoSQL, Redis, Vector Database for ex. Pinecone, Milvus, Vespa.
AI/ML & Blockchain : LLM, NLP ,Deep Learning, Random Forest, Prompt Engineering ,Langchain, Elastic, Open Ai, Solidity.
Tools: GitHub & Git, VSCode, Confluence, Curl, GCP, Docker, Vercel, Ubuntu

POSITIONS OF RESPONSIBILITY

Entrepreneurship Cell,DTU | PR & Publicity Head
- Organized pan India Ideathon (Startupthon) having **2,000+** participants and raised in-kind sponsorships worth **INR 10 lakhs** + from LinkedIn and other social media connections**.**
- **Hosted 20+ speakers** including Ashneer Grover, Vinod Dham, Rajiv Sikka and artists like Rahul Dua and Samay Raina.