

Swayam Khandelwal

Bengaluru, India

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EDUCATION

BMS Institute of Technology and Management

Bachelor of Engineering in Computer Science- **9.46** CGPA

Yugantar Public School

10th Standard: **96** Percent

12th Standard (PCM): **97** Percent

PROJECTS

AI Enhanced Balanced Tree (AEBT)

Tech Stack: Python, Scikit-learn, NumPy, Matplotlib.

Developed an innovative data structure, AI-Enhanced Balanced Tree (AEBT), integrating AI algorithms with traditional balanced tree properties to optimize data operations.

Efficient Data Management: Utilized AVL/Red-Black tree properties for efficient storage, retrieval, and sorting of large datasets.

AI-Driven Optimization: Incorporated machine learning algorithms for dynamic optimization of search, insertion, deletion, and sorting processes.

Decentralized Ticket Booking App (Ciphertix)

Tech Stack: React, Node.js, Ethereum, Solidity, Hardhat, Gemini, IPFS.

Designed and implemented a **seamless and intuitive user interface** using React.js.

Engineered **robust authentication** functionalities with Blockchain, ensuring high-performance and scalability for efficient ticket booking operations.

Implemented Ethereum blockchain for secure and immutable ticket transactions, guaranteeing transparency and trustworthiness in every transaction.

Leveraged Pinata's **IPFS** for **decentralized**, safe, and secure storage of user IDs.

Integrated Gemini API to provide users with access to event descriptions and booking options, enhancing platform versatility.

HR Agent using LLM's

Tech Stack: Python, RAG, VectorStores, Llamaindex, Tools, LLM.

Utilized **advanced retrieval-augmented generation** (RAG) techniques and vector databases to enhance the accuracy of candidate assessments. Integrated multi-agent collaboration to streamline HR processes, improving decision-making in the selection process.

Focused on **optimizing the evaluation workflow** for a more efficient and effective hiring strategy. Demonstrated a significant improvement in candidate quality and selection efficiency. Delivered a scalable solution tailored to HR needs.

CERTIFICATIONS

Azure Fundamentals (Microsoft - April '23)

Azure AI Fundamentals (Microsoft - June '23)

Foundations-Data Analytics (Google - July '23)

Python Data Structures(Infosys Springboard - March '23)

ATL Tinkerpreneur (NITI Ayog - June '21)

EXPERIENCE

AI Engineer Intern (IBM)

06/2024 – 06/2024

Tech Stack: Python, PyTorch, IBM Watson AI, LangChain, LLMs, IBM Cloud, RAG.

I gained extensive experience and hands-on experience with DL, LLMs, and advanced LLM based tech. My work involved prompt engineering and fine-tuned various LLMs, including IBM's Watson AI, and worked on solutions leveraging Large Language Models. I developed a scalable RAG (Retrieval-Augmented Generation) evaluation framework, which can evaluate up to 100 RAG pipelines simultaneously, improving efficiency by 83% in time and resource utilization.

Full Stack Developer Intern (Hireintel)

03/2024 – 06/2024

Tech Stack: Python, React, Next.js, Express.js, MongoDB, AWS (basic), HTML/CSS/JS.

As a Full Stack Developer Intern at HireIntel, I played a pivotal role in developing engaging web interfaces utilizing a diverse tech stack including Python, React, Next.js, and Express.js. Alongside UI development with React.js, Next.js, and Edge templates, I also contributed to MongoDB for database management, implemented AI-based functionalities using Python, and managed CRON jobs for automated tasks. Additionally, I acquired foundational knowledge in AWS, including SSH basics, and successfully implemented a landing page using Express, HTML, CSS, and JS to enhance platform usability and drive product innovation.

Frontend Developer Intern (Learn Tinkering)

10/2022 – 11/2022

Contributed to frontend development at Learn Tinkering, crafting engaging web interfaces and enhancing platform usability. Created interactive webpages using HTML, CSS, PHP.

SKILLS

Cloud Computing (Azure, AWS)

Data Analysis and Visualization (Python)

ACHIEVEMENTS

HCL- TECHBEE: Received letter of Intent from HCL technology after 12th Std. for training and placement under Tech Bee program of HCL.

NATIONAL LEVEL ROLLBALL PLAYER: Participated at the 63rd National school games, Neemuch, Madhya Pradesh.

INDIAN NAVY: Got selected for the SSB interview for 10+2 Technical entry scheme. A conference out candidate from 12-SSB Bangalore.

INTERNATIONAL RANK 52: Achieved at International Cyber Olympiad at National Cyber Olympiad held by SOF.