

# 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

10<sup>th</sup> Standard: **96** Percent

12<sup>th</sup> 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 – Present**

*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 also delved into RAG, LangChain, and Agents, contributing to innovative AI projects and gaining valuable insights into transformative AI applications.

### 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)

Programming (Java, C)

Data Analysis and Visualization (Python)

## ACHIEVEMENTS

**HCL- TECHBEE:** Received letter of Intent form HCL technology after 12<sup>th</sup> 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.