

# SUMAN DEY

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## Work Experience

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### MindBrain Innovation Pvt. Ltd.

June 2026 – July 2026

*AIML Intern*

*On-Site, Bhubaneswar*

- Built AI-powered applications using Python, LLMs, and Generative AI workflows.
- Developed full-stack AI solutions with LLMs, RAG pipelines, and AI agents for real-world use cases.
- Built Podcast Buddy using Gemini, Edge TTS, and FFmpeg to transform news into natural podcast episodes.

### Synauris Inc.

April 2025 – August 2025

*Frontend Engineer Lead (Founding Team)*

*Remote*

- Developed scalable frontend systems integrating 15+ REST APIs using React and TypeScript.
- Delivered 10+ production-ready features with testing and CI/CD workflows.
- Collaborated on PostgreSQL database design and backend API architecture.

## Projects

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### AstraDB | *GitHub*

C++ | RAG | REST API

- Built a custom vector database implementing ANN indexing and semantic search for AI retrieval systems.
- Developed Retrieval-Augmented Generation (RAG) pipelines using embeddings and local LLMs for contextual querying.
- Designed REST APIs for vector storage, semantic retrieval, and AI-assisted search workflows.

### Podcast Buddy | *Live* | *GitHub*

Gemini | Edge TTS | FFmpeg

- Built an AI-powered news-to-podcast platform converting live news into natural two-host podcast episodes.
- Integrated Gemini, Edge TTS, and FFmpeg to automate summarization, dialogue generation, and audio synthesis.
- Designed REST APIs connecting AI backends with responsive frontend interfaces for seamless user experience.

### PDFly | *Live* | *GitHub*

React | TypeScript | Node.js

- Built a browser-based PDF processing platform with zero server dependency and responsive user interface.
- Optimized memory usage and asynchronous workflows to efficiently process large PDF files.
- Implemented modular architecture using React and TypeScript for scalable and maintainable development.

## Technical Skills

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**Languages:** Java, Python, C++, JavaScript, TypeScript, SQL [1mm]

**AI:** Machine Learning, Generative AI, LLMs, RAG, LangChain, Hugging Face, Semantic Search [1mm]

**Backend:** Node.js, Express.js, REST APIs, JWT, OAuth 2.0 [1mm]

**Frontend:** React, Next.js, Tailwind CSS, Shadcn UI [1mm]

**Databases:** PostgreSQL, MongoDB, MySQL [1mm]

**Tools:** Git, GitHub, Jest, GitHub Actions, CI/CD, Vercel, VS Code

## Education

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### Trident Academy of Technology

Bhubaneswar, Odisha

*B.Tech in Computer Science and Engineering — CGPA: 8.07*

*2023 – 2027*

- Relevant Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Computer Networks, AI, Machine Learning

## Certifications

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- Google AI Essentials – Google
- AI for Everyone – DeepLearning.AI
- Cloud Computing Foundations – Duke University
- Anthropic AI Fluency: Framework & Foundations