

# Sonali Behera

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in LinkedIn | GitHub

## EDUCATION

**PARALA MAHARAJA ENGINEERING COLLEGE** | B.TECH IN COMPUTER SCIENCE & ENGINEERING  
Grad. June 2023 | Odisha, India | CGPA: 9.11 / 10.0

**BASIC SCIENCE AND HUMANITIES(JUNIOR) COLLEGE** | PCM IN XII - CHSE  
Grad. May 2018 | Odisha, India | Percentage: 79.83%

## EXPERIENCE

**THIRD ROCK TECHKNO** | JUNIOR PROGRAMMER ANALYST  
Jan 2023 - Present | Ahmedabad, India

- Developed and implemented **advanced Generative AI solutions** using state-of-the-art **language models** including GPT-3.5, GPT-4, Gemini, Vertex AI, PALM, LLAMA, Mistral, integrating them with Langchain to create robust and reliable applications.
- Led **backend development** for multiple projects using **Node.js, Python FastAPI** and RESTful APIs.
- Collaborated effectively with cross-functional teams, demonstrating **strong communication** and **time management skills**.
- Conducted **5+ internal seminars** on **Generative AI concepts**, actively **contributing** to the organization's **AI community**.
- Utilized custom **agile methodologies** to ensure **timely project delivery** and **high-quality code** output.

## WORK PROJECTS

**CODE GUARDIAN APP FOR GITHUB** | PYTHON, LANGCHAIN, FASTAPI, AWS, VECTORDB, GEMINI, PHI3

- Developed a code guardian app **automating the review of Pull Requests(PRs)**, suggesting changes based on custom rules and standards.
- Enabled **model switching** via **comments**, allowing users to select the desired model for code review.
- Created a feature to **auto-generate customized PRs** with all suggested changes, enabling a **one-click merge** for **optimized, compliant code**.
- Achieved a **95% accuracy** rate in identifying code faults and enhancements. Reduced manual review time by **40%**, boosting team efficiency. **Improved processing speed**, with reviews and suggestions completed in an average of **2 minutes per PR**.

**AI-POWERED MEDITATION ASSISTANT** | NESTJS, LANGCHAIN, OPENAI, POSTGRESQL, RAG, EMBEDDINGS

- Developed a mental health and wellness platform **chatbot**, proficient in addressing user queries related to the application, mental health, and various features.
- Utilized the **RAG (Retrieval-Augmented Generation)** mechanism to **minimize hallucinations** and ensure accurate responses. Integrated LangChain and **GPT 3.5 Turbo** for advanced text-generation capabilities.
- Enhanced user experience by **reducing response time** by **30%** and increasing **average session duration** by **25%** after integrating the chatbot.

**SMART USER DATA AGENT** | NODEJS, NESTJS, LANGCHAIN, OPENAI

- Developed a Smart User Data Agent to **dynamically collect user details** via chat and automatically **save information** in a database.
- Integrated advanced **AI tools** to **validate email addresses, verify country codes**, and send customized thank you emails based on user interactions.
- Ensured seamless user information collection, exceeding expectations in data accuracy and user experience.
- Achieved a **90%** success rate in delivering thank you emails, **enhancing user engagement**.

## PROGRAMMING SKILLS

**Languages:** • Python • C • C++ • JavaScript • TypeScript • HTML • CSS • SQL • NoSQL

**Tools:** • Pandas • NumPy • Transformers • HuggingFace • Large Language Model(LLM) • Langchain • CrewAI • MCP • OpenAI • AWS • GCP • serverless • Docker • NodeJs • ExpressJs • NestJs • PostgreSQL • MongoDB • FastAPI

## ACHIEVEMENTS

- Solved **400+** programming problems across platforms including LeetCode, GeeksForGeeks, and HackerRank.
- Contributed to **open-source projects** during **Hacktoberfest 2021**.