

# SIDDHARTH PRAKASH

PES University, Bangalore

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## EXPERIENCE

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**Freelance Web Developer, Trekzo Resources Pvt Ltd** Jun 2024 - Jul 2024

- Created a Bootstrap [landing page](#) for the organization, boosting lead generation by 30%.

**AI Intern, LogoJech Technologies** Jun 2023 - Jul 2023

- Revamped a facial recognition system using OpenCV and d-lib also reduced memory by 20%  
- Integrated model with AWS DynamoDB for data storage and designed a face liveliness check feature for Android improving security by 40%

**Project Research Associate, Sports Technology and Analytics Research Centre** Jun 2023 - Aug 2023

- Coordinated Monte Carlo simulation and ML to predict football match outcomes, analyzing over 25,000 matches and 10,000 players and created a user interface for data exploration

## PROJECTS

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**Advanced MultiModel Intelligent Agent (AMMIA):**[Github](#)

- Engineered a multi-functional AI system utilizing *Mistral* for sophisticated querying and document parsing, and *CodeLlama* for code generation
- Parsed 100+ complex PDF documents, constructed a vector store index with 95% retrieval accuracy and generated Python scripts with over 60% efficiency

**LLAMA3.1-70B Powered AI Content Curator for X in GenAI, LangChain, and CrewAI** [Github](#)

- Developed an advanced AI content curation system utilizing the LLaMA3-70B model via Groq API. Implemented a bot to discover, analyze, and share the latest in Generative AI, LangChain, and CrewAI on X. Does 5 tweets at a time and has 3 agents for it and used CrewAI to power up the whole project

**Next-Gen Multimodal Conversational AI System:**[Github](#)

- Architected a state-of-the-art AI voice assistant integrating Google Speech Recognition, pyttsx3, and OpenCV. Leveraged the Llama3 model via Ollama for advanced AI responses with 98% accuracy
- Employed LangChain to manage and contextualize conversation history, improving user interaction by 85%

**Algorithmic Navigation Visualizer:**[Github](#)

- Developed an innovative React-based platform for visualizing 2 complex path finding algorithms
- Enabled Dijkstra's and A\* Algorithms, offering insights into the processes for determining the shortest path between grid points

**ShadowSpeak (Advanced Real-Time Chat System):**[Github](#)

- Programmed a sophisticated chat application using Socket.IO for seamless WebSocket communication
- Facilitated multi-client connections handling over 500+ concurrent users with zero latency and Enabled users to converse anonymously or with identities revealed

**MLTrader: A Machine Learning Trading Bot:**[Github](#)

- Created an automated trading bot using FinBERT for sentiment analysis and executed trades on Alpaca and back tested strategies with Yahoo Finance, improving trading accuracy by 40%

**Mnist-GAN:**[Github](#)

- Devised a GAN model to generate numbers from the MNIST dataset with 90% visual accuracy

## EDUCATION

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**Bachelor Of Computer Science**, PES University

Oct 2021- Apr 2025

- Coursework: Machine Intelligence, Operating System, Computer Networks, Compiler Design, Cloud Computing, Database Management Systems, Software Engineering, Data Structures and Algorithms, Software Engineering

## SKILLS

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<b>Languages</b>	C, C++, Java, SQL, HTML, CSS, JavaScript, Python
<b>Business Development</b>	Marketing, Sponsorship, Strategy, Finance
<b>Libraries</b>	TensorFlow, Next.js, CrewAI, Keras, React.js, Node.js, PyTorch, NumPy, Pandas
<b>Tools</b>	Docker, Kubernetes, Git, GitHub, Jenkins, AWS, Maestro
<b>Soft Skills</b>	Team Leadership, Project Management, Effective Communication

## EXTRACURRICULAR ACTIVITIES

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- Head of Sponsorship [Maaya](#) handled over 8000+ students in this annual college fest, procured sponsorship of more than INR 4 lakhs+
- Head of Sponsorship and Marketing [Shunya](#), [IEEEras](#), [Weal](#) combined together hosted 7 hackathons and procured combined sponsorship of more than INR 10 lakhs+
- Lead Photographer [Pixelloid](#) Shot for more than 20+ events and Officially for Royal Enfield launch event, check out all the [work](#)
- SME Intern, [Sahai](#) India: Increased Instagram followers by 10% through hashtag optimization and boosted website traffic by 20% via LinkedIn strategy

## CERTIFICATES

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- Tensorflow 2.0: Deep Learning and Artificial Intelligence [Certificate](#)
- LangChain-Develop LLM powered applications with LangChain [Certificate](#)
- Supervised Machine Learning: Regression and Classification [Certificate](#)
- HackerRank C Language(Intermediate) [Certificate](#)
- Hacktoberfest 2022: Level 4 [Badge](#)
- AWS Educate Getting Started with Serverless [Certificate](#)
- AWS Educate Getting Started with Networking [Certificate](#)
- AWS Educate Getting Started with Compute [Certificate](#)
- LFD103: A Beginner's Guide to Linux Kernel Development [Certificate](#)