

SIDDHARTH PRAKASH

PES University, Bangalore

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EXPERIENCE

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

Advanced MultiModal 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

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
- 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

Soccer Video Analysis:[Github](#)

- Implemented a system to analyze soccer video footage using YOLOv8 and YOLOv5x for object detection with 10 features: player, ball, and referee detection and tracking, camera movement estimation, view transformation, speed and distance calculation, team color assignment, and ball possession determination.

EDUCATION

Bachelor Of Computer Science, PES University

Oct 2021- Apr 2025

SKILLS

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

EXTRACURRICULAR ACTIVITIES

- Head Of Sponsorship and Marketing [SHUNYA](#), [IEEEERAS](#), [WEAL](#) combined together hosted 7 hackathons and procured combined sponsorship of more than INR 10Lakh+
- 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

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