

Digambar Behera

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SUMMARY

Full-Stack and AI/ML Developer experienced in building production-ready web applications, machine learning pipelines, and real-time systems. Proficient in **React, Next.js, TypeScript, Python, and PyTorch** with hands-on exposure to **LLM integrations, RAG pipelines, and vector databases**. Built projects spanning AI-powered interview platforms, ML-based predictors, and interactive frontend tools. Seeking a **Software Engineering Internship** in Frontend, Backend, or AI/ML to contribute to scalable, impactful systems.

EDUCATION

ITER, Siksha 'O' Anusandhan | CGPA: 7.53 Bhubaneswar, India
Bachelor of Technology in Computer Science & Engineering 2024 – Present
Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP, Machine Learning

PROJECTS

NexterView: AI Mock Interview Platform | *Next.js, TypeScript, PostgreSQL, Gemini AI* | [Live](#) | [GitHub](#) March 2026

- Engineered an **AI question generation pipeline** using **Google Gemini 2.5 Flash** to produce role-specific questions customized by job role, difficulty, type, topics, and experience level.
- Integrated **Web Speech API** for real-time voice transcription with keyboard fallback; implemented a **structured AI feedback engine** returning JSON reports with scores, skill breakdown, and per-question improvements.
- Secured the platform with **Clerk authentication, Prisma ORM PostgreSQL sync, and Arcjet rate limiting**; implemented **multi-attempt tracking** with Recharts dashboards and readiness score trends.

Stock Trend Predictor | *Python, PyTorch, LSTM, Streamlit, yfinance* | [GitHub](#) February 2026

- Architected a **multi-layer LSTM neural network** (128→64 hidden units) in **pure PyTorch**, selecting LSTM over simpler models for its ability to **capture long-range temporal dependencies** in sequential financial data.
- Developed a **custom PyTorch MinMaxScaler** as a drop-in scikit-learn replacement and automated **20-year data ingestion** via **yfinance API** with moving average and percentage change feature engineering.
- Evaluated model with **MAE, RMSE, MAPE, and R²**; deployed an **interactive Streamlit app** with Plotly charts for real-time stock selection, model upload, and prediction visualization.

F1 AI Race Predictor | *Python, XGBoost, Streamlit, FastF1, Plotly* | [GitHub](#) December 2025

- Delivered an **ML-powered prediction system** using **XGBoost Regressor and Classifier** trained on **839 records** from 42 races across 21 circuits (2022–2024), achieving a **race MAE of 3.29 positions**.
- Constructed an **automated data pipeline** via **FastF1 API** for race data ingestion, feature engineering from driver form, weather, and circuit stats, and model persistence as .pkl files.
- Designed an **interactive Streamlit dashboard** with **Plotly** charts featuring qualifying prediction, safety car probability, position progression, and multi-driver grid comparison mode.

QuillKeys: Literary Typing Test Platform | *React, TypeScript, Tailwind CSS, Zustand* | [Live](#) | [GitHub](#) October 2025

- Developed a **real-time typing engine** with **smart error tracking** logic detecting missed keys and skipped words, computing live **WPM and accuracy** metrics per keystroke with a **keyboard heatmap** visualization.
- Implemented a **session history and analytics system** using **Zustand** for state management, persisting test results and rendering performance trend charts across all sessions.
- Architected a **deeply configurable UX layer** supporting 6 typography themes, multiple caret styles, Zen and Focus modes, and adaptive test durations, built on a **modular React component system** with a fully responsive dark/light UI.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL
AI / ML: PyTorch, TensorFlow, Keras, Scikit-Learn, HuggingFace, Ollama
AI Engineering: LangChain, LangGraph, Vector Databases, LLM Agents, RAG Pipelines
Frameworks: React, Next.js, Node.js, Express.js, FastAPI, Flask, Django, Tailwind CSS, Socket.io
Databases & Tools: PostgreSQL, MongoDB, MySQL, Prisma, Git, GitHub, Docker, VS Code, Streamlit, Jupyter

ACHIEVEMENTS

Finalist, SOA SIH Internal Hackathon 2025, ITER September 2025

- Built a **Digital Mental Health and Psychological Support System**; selected as **top 45 team** out of 300+ teams (1800+ participants).

Open Source Contributor, GSSoC & Open Source Connect July – October 2025

- Contributed under **GirlScript Summer of Code 2025** and **Open Source Connect 2025**, collaborating with the global developer community across multiple repositories.