ABHISHEK BALA

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Education

National Institute of Technology, Rourkela — **December 2021 – Present**
B.Tech in Ceramic Engineering and M.Tech in Industrial Ceramics (Dual Degree) — (CGPA - 7.93) — *Rourkela, Odisha*

Balika Vidyalay ,Sambalpur — **JULY 2020**
AISCCE – CBSE, Science (PCM) (Percentage - 81.6%) — *Sambalpur, Odisha*

Delhi Public School, Sambalpur — **MAY 2018**
AISSE – CBSE (Percentage - 87%) — *Sambalpur, Odisha*

Relevant Coursework

- Data Structures and Algorithm
- Database Management Systems
- Cybersecurity
- Machine Learning & Artificial Intelligence
- Full-Stack Web Development
- Statistics & Probability
- Cloud Computing & APIs

Work Experience

Goa Institute of Management (GIM) — **May 2025 – July 2025**
Valuation Analyst Intern — *Remote*

- Valued Zepto using VC, DCF, Relative, and Real Options methods based on Damodaran's startup frameworks; modeled IRR targets, terminal value, and survival-adjusted equity outcomes.
- Built end-to-end projections using CMIE ProwessIQ data, applying multi-year FCFF modeling, EV/Sales benchmarking, and Black-Scholes simulation for optionality.

Edulyt India — **Jun 2024 – Aug 2024**
Data Analyst Intern — *Dwarka, New Delhi*

- Conducted in-depth analysis of credit banking systems, utilizing Python, Excel, and SQL to extract insights, identify trends, and optimize financial operations.
- Prepared a comprehensive project report with actionable recommendations, showcasing data visualization and reporting skills using tools like Matplotlib and Seaborn.

Projects

BrowserAgent-GPT-Navigator — **June 2025**
Puppeteer, OpenAI GPT Model, MCP Agents, Python — *GitHub*

- Built an AI-driven browser automation agent capable of autonomously navigating, scraping, and summarizing websites using LLMs.
- Emulated human-like web interaction logic to perform intelligent, repeatable browsing tasks.

StockSage-AI — **May 2025**
CrewAI, LangChain, Groq API, Python, yFinance, Streamlit — *GitHub*

- Designed a multi-agent financial dashboard integrating stock price analytics, sentiment data, and news to generate real-time investment insights.
- Engineered modular components for high-performance backend processing and interactive frontend.

AI-TextEvaluator-Suite — **May 2025**
LangGraph, Python, Streamlit — *GitHub*

- Developed a LangGraph-based agent suite for AI-powered essay grading and real-time text classification with named entity extraction.
- Used modular agent design for improved scalability and rapid evaluation across domains.

Blog-to-Podcast Agent — **July 2025**
Agno SDK, Groq API, FirecrawlTools, ElevenLabsTools, Python — *GitHub*

- Created an agentic pipeline that scrapes blog content, summarizes it, and converts it into podcast-style audio using ElevenLabs TTS.
- Demonstrated end-to-end automation of content repurposing using LLM agents.

Achievements/Certifications

- **AlgoSwarm Hackathon**   **June 2023**
  My team secured a spot in the top 10 teams in India to qualify for the finals among 300 teams.   Certificate

- **Machine Learning A-Z**   **June 2024**
  Completed "Machine Learning A-Z: AI, Python, R + Chat- GPT Prize [2024]" on Udemy, mastering machine learning algorithms, data preprocessing, and model development.   Certificate

- **Generative AI**   **June 2025**
  Completed "Complete Generative AI Course With Langchain and Huggingface" on Udemy, mastering RAG pipelines, LangChain agents, and HuggingFace transformers.   Certificate

Technical Skills

- **Languages**: Python, C/C++, HTML5/CSS3, JavaScript (ES6+), SQL (MySQL), NoSQL (MongoDB)

- **Frameworks & Tools**: React.js, Node.js, Express.js, FastAPI, Bootstrap, jQuery, Streamlit, LangChain, LCEL, RAG, LangGraph, CrewAI, MCP, Ollama, Groq API, Firecrawl

- **Libraries**: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, SciPy, HuggingFace

- **Databases**: MySQL, PostgreSQL, MongoDB, AstraDB, Faiss, ChromaDB, Firebase, Neo4j

- **Operating Systems**: Windows, Kali linux, MacOS

- **Developer Tools**: Git & GitHub, VS Code, Cursor AI, Jupyter Notebook, Postman, Power BI, MS Excel, Arduino, Figma, Bash, PowerShell, Vercel, Docker, AWS

Extracurricular Activities

BearsNBulls   **SEPT 2021 – SEPT 2022**
President   *NIT Rourkela*

- Organized seminars with investors, traders (Dr. Mukul Agrawal, Abhishek Kar). Led community events focused on capital markets and trading.

OpenCode   **SEPT 2021 – NOW**
Cyber Security Enthusiast   *NIT Rourkela*

- Participated in Capture the Flag (CTF) challenges and explored hardware-based cybersecurity projects like Rubber Ducky payload systems.