

Shubh Pundir

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Professional Summary

Dynamic and results-oriented software developer with a strong focus on project-based learning and hands-on development. Proven track record as a freelance developer, successfully managing and delivering client projects with impactful results. Committed to continuous learning, creative problem-solving, and producing high-quality, scalable software.

Skills

Languages: C/C++, Java, Python, HTML, CSS, JavaScript, SQL/NoSQL, R, Spark

Skills: Data Analytics, ETL, Big Data, ML, NLP, LLM Tuning, CV, Backend, APIs

Software: Git/GitHub, Power BI, Tableau, Kibana, AWS, Azure AI, LangChain

Experience

Self Employed | *Freelance Software Engineer* Jan 2022 to Present
Delivered 12+ paid freelance projects across data engineering, analytics, automation, NLP, and conversational AI for international clients spanning India, UK, Denmark, UAE, Morocco, and Ethiopia. Built and deployed chatbots and LLM-powered AI agents, integrating them with CRM backends to automate 60% of repetitive customer queries and enabling document search and analytics for internal tools.

MYTL Technologies | *Founding Software Engineer Member* Aug 2025 to Dec 2025
Refactored the SIP communication stack into a production-grade microservice ecosystem using Drachtio and FreeSWITCH, improving call reliability for 1,000+ active users. Enhanced internal Analytics Engine by fine-tuning a BERT-based Intent Classifier, reducing redundant RAG calls by 40% and improving intent detection accuracy for inbound knowledge base screening. Optimized real-time call performance by reducing SIP latency by 30% through debugging and streamlining Redis Streams and WebSocket event handling for OpenAI's Realtime API integration.

WDS: Wiz Digital Services | *Machine Learning Engineer* Jan 2024 to June 2024
Designed and deployed a transformer-based PII protection NLP model across multi-client systems with 92% anonymization accuracy, integrating it into production pipelines for scalable, privacy-preserving AI. Collaborated with product and DevOps teams to modernize legacy architectures and built Botpress and Rasa chatbots that improved customer resolution efficiency by 78%.

Projects

Mudda | *Spring Boot, PostgreSQL, Next.js, LangChain, Gemini, QdrantDB* 2025

- Built a scalable backend powering a civic-driven social media platform where users post issues ("muddas"), discuss solutions, and collaborate on community impact.
- Designed and integrated an autonomous agentic AI-assisted workflow engine to replicate admin decision-making, automatically classify issues, detect duplicates, assign categories, and generate moderation actions.
- Created a responsive Next.js frontend for real-time issue tracking, workflow human in the loop, etc.

Find-DB: Java based Database Engine from Scratch | *Java, Maven* April 2025

- Developed a lightweight custom binary file based database engine in Java with CRUD operations, indexing, data sharding, etc. simulating a relational DBMS.
- Accomplished logarithmic time lookup and prefix-based auto-completion by integrating a B+ Tree and Tries.
- Engine designed to support future modules such as query optimization, transactions, and web-based admin interface.

AI-Based Music Recommendation System | *Python, Airflow, Postgres, Spark, NLP, Beautiful Soup4* April 2025

- Extracted audio features (tempo, pitch, MFCCs, etc.) with audio fingerprinting and embedded lyrics using transformer-based NLP models for emotion analysis, creating a diverse feature base for musics, artists, albums, etc.
- Attained 90% Precision@K by developing a hybrid recommendation logic combining collaborative and content-based filtering with context awareness.
- Maintained a Data Warehouse with Big Data principles and designed custom ETL pipeline from multiple APIs.

Education

The Northcap University	2022 – 2026
<i>B.Tech in Computer Science Engineering</i>	<i>GPA: 8.98/10.0</i>
Sri Sri Academy (12th ISC)	2022
<i>PCM + Computer Science</i>	<i>90.0%</i>
Sri Sri Academy (10th ICSE)	2020
<i>Science + Computer Science</i>	<i>94.7%</i>

Certifications

Microsoft Azure AZ-900	Introduction to MongoDB
AWS Academy: Data Engineering	