

# Shubh Pundir

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## Professional Summary

Backend Engineer with 3+ years of experience building production systems for startups and 10+ international clients. Specialized in scalable APIs, data pipelines, and AI-enabled backend architectures.

## 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 – 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.
- Owned end-to-end backend delivery for data-heavy and AI-enabled applications, from system design to deployment and post-launch iteration.
- 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 – 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.
- Improved internal analytics and decisioning pipelines by fine-tuning a BERT-based intent classification service, reducing unnecessary RAG calls by 40% and improving routing accuracy.
- Optimized real-time call performance by reducing SIP latency by 30% through debugging and streamlining Redis Streams and WebSocket event handling for OpenAI Realtime API integration.

**WDS: Wiz Digital Services** | *Machine Learning Engineer Intern*

Jan 2024 – Jun 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.
- Developed conversational systems using Botpress and Rasa, increasing customer issue resolution efficiency by ~78%.

## Projects

**Mudda** | *Spring Boot, PostgreSQL, Flutter, LangChain, Temporalio, 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 to simulating core relational DBMS concepts.
- 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

- Built a data pipeline combining audio feature extraction, NLP-based lyric analysis, etc. to generate rich representations of music metadata.
- Attained 90% Precision@K by developing a hybrid recommendation logic combining collaborative and content-based filtering with context awareness.
- Designed and maintained a data warehouse and ETL pipelines following big-data principles for scalability and reproducibility.

## Education

**The Northcap University**

2022 – 2026

*B.Tech in Computer Science Engineering*

*GPA: 8.98/10.0*

**Sri Sri Academy (12th ISC)**

2022

*PCM + Computer Science*

*90.0%*

**Sri Sri Academy (10th ICSE)**

2020

*Science + Computer Science*

*94.7%*

## Certifications

**Microsoft Azure AZ-900**

**Introduction to MongoDB**

**AWS Academy: Data Engineering**