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

Education

The Northcap University 2022 - 2026
Bachelor of Technology in Computer Science Engineering *Current GPA: 8.98/10.0*

Sri Sri Academy (12th ISC) 2022
Physics, Chemistry and Mathematics + Computer Science *Percentage: 90.0*

Sri Sri Academy (10th ICSE) 2020
Science + Computer Science *Percentage: 94.7*

Skills

Languages: C/C++, Java, Python, HTML, CSS, Javascript, SQL/NOSQL, R, Spark
Skills: Data Analytics, Data Engineering, ETL, Big Data, Machine Learning, Natural Language Processing, LLM tuning, Computer Vision Models, PyTorch, TensorFlow, Backend, Conversational AI, Solution Architecture, API Integration
Software: Git/GitHub, Power BI, Tableau, Kibana, AWS, Azure AI, LangChain

Projects

Food-Stat | *Python, Flask, Jinja, Gemini, QdrantDB, Langchain* Dec 2024
- Rated packaged food via OCR scan and a custom ML model to mimic expert-level nutritional reasoning for accurate and explainable food ratings for context-aware profiles(e.g., Pregnant Mothers, Infants, Muscle Up, Weight Loss) .
- Added a chat-based system enabling customers to discuss diets, food plans, and nutritional habits, with contextual memory retention for efficient and personalized AI-driven conversations.
- Implemented chatbots + LLM services calls to streamline user query to any food item which can be fetched via barcode scan.

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.

Experience

WDS: Wiz Digital Services | *Machine Learning Intern* 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%.

VTPL: Vareli Tecsoft Pvt. Ltd. | *Data Engineering Intern* Jun 2025 to July 2025
Analyzed service call transaction logs and developed a comprehensive dashboard using Tableau. Translated client requirements into actionable specifications, leading to the successful development of multiple concept documents. Developed a Django-based asset management framework, integrating Win32 API for device registration and software patch management.

MYTL Technologies | *Software Engineer Intern* Aug 2025 to Present
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.

Certifications

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