

VINAYAK KANCHAN

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SUMMARY

Software Engineer at Celebal Technologies with hands-on experience in building scalable backend systems using Python and FastAPI. Actively working on integrating Large Language Models (LLMs) into backend applications. Experienced in cloud-native development using Microsoft Azure services. Proficient in Python, C++, and C with solid problem-solving skills.

PROFESSIONAL EXPERIENCE

Celebal Technologies, Jaipur, Rajasthan: Software Engineer	August 2024 – Present
<ul style="list-style-type: none">Engineered and maintained high-performance, asynchronous RESTful APIs using Python, FastAPI, and Pydantic, powering the core backend of a production-grade e-commerce application.Automated a data reporting pipeline by integrating data warehouse ingestion, schema transformation, and secure API-based delivery, reducing manual operational effort by 60%.Designed and deployed scalable, message-driven cloud architectures using Azure Service Bus and Azure Function Apps to enable reliable inter-service communication.Implemented publish/subscribe messaging patterns using Azure Service Bus to ensure fault-tolerant data delivery across distributed services.Managed and secured mission-critical APIs using Azure API Management (APIM), implementing rate-limiting, caching, and JWT-based authentication.	

EDUCATION

B.Tech in Computer Science (Honors) – Specialization in Artificial Intelligence & Machine Learning	2021 - 2025
Manipal University Jaipur	8.66 CGPA
XII CBSE Boards	2020 - 2021
All Saints Sr. Sec. School, Ajmer	89%
X CBSE Boards	2018 - 2019
All Saints Sr. Sec. School, Ajmer	90%

PROJECTS

Ecommerce-Backend	Sept 2025
<ul style="list-style-type: none">Developed a production-ready RESTful API with FastAPI, leveraging SQLAlchemy for data management and Alembic to safely automate database migrations, ensuring continuous deployment.Implemented secure authentication and authorization using JWT (JSON Web Tokens) for both customers and administrators and fine grained access control using RBAC (Role Based Access Control).Utilized PostgreSQL as the primary database, managed via an ORM - SQLAlchemy ensuring transactional integrity for complex operations like order processing and inventory updates.	

IPC Prediction	Jan 2024 - Apr 2024
<ul style="list-style-type: none">Built an NLP-based machine learning system to predict applicable IPC (Indian Penal Code) sections from unstructured crime descriptions using Python.Performed text preprocessing and feature extraction using TF-IDF Vectorization and Label Encoding to capture linguistic patterns.Trained and evaluated Naive Bayes and Random Forest classifiers, achieving an accuracy of 88.28%.Automated preliminary legal text classification, reducing manual effort in IPC section identification.Published a patent recognizing the novelty of the IPC prediction approach and its application of machine learning to legal text analysis.	

TECHNICAL SKILLS

Programming Languages: Python, C, C++

Backend Development: FastAPI, Pydantic, SQLAlchemy, REST APIs, Pytest

Data & Machine Learning: NumPy, Pandas, Matplotlib, NLTK

Databases: MySQL, PostgreSQL, MS SQL Server

Cloud Platforms: Microsoft Azure (App Service, Azure Functions, Service Bus, Event Hub, Logic Apps, API Management)

Certifications: Microsoft Azure Fundamentals (AZ-900)

Soft Skills: Problem Solving, Team Collaboration, Communication, Time Management