

AJAY KUMAR

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Education

Cochin University of Science and Technology, B.Tech in Information Technology

2018–2022

Experience

Application Engineer

Aug 2022 – Present

Oracle, Hyderabad

- Designed and deployed Flask- and FastAPI-based APIs on OCI VMs for efficient data retrieval, transformation, and customer-facing integrations.
- Managed and optimized Oracle Cloud Infrastructure (OCI) resources, focusing on high availability, security, and cost efficiency.
- Automated workflows using OCI Functions (Python), reducing manual work and improving scalability.
- Designed and deployed Flask-based APIs on OCI VMs for efficient retrieval and transformation of Oracle DB data in JSON format.
- Built serverless Python functions integrated with OCI services to improve automation and operational performance.
- Designed integrations via Oracle Integration Cloud (OIC), ensuring seamless data flow between cloud and on-prem applications.
- Configured and maintained secure cloud networking architectures supporting enterprise-scale systems.

Projects

FastAPI Web Service on Oracle Cloud — Python, FastAPI, Oracle Cloud Infrastructure, REST APIs
Built and deployed a FastAPI-based web service on OCI VMs to enable secure and scalable data consumption for customers and other applications, supporting seamless data retrieval, transformation, and integration within enterprise systems.

Oracle ATP Database Backup Pipeline — OCI, SQL, GoldenGate

Developed an automated pipeline for database backups and synchronization, reducing downtime risk and improving reliability.

Data Restructuring Webservice — Python, Flask, Pandas, OCI

Implemented a service that fetches and restructures data from OCI Object Storage, cutting manual effort by 80% and boosting processing speed.

Salary Prediction System — Python, Sklearn

Developed a regression model achieving 85% accuracy for predicting employee salaries based on years of experience.

Technical Skills

- **Core Subjects:** Data Structures, Algorithms, DBMS, Networking, Operating Systems, Cloud Computing, Machine Learning
- **Languages:** Python, C, C++, Java
- **Web:** HTML, CSS, JavaScript, REST API
- **Frameworks:** Django, FastAPI, Flask
- **DevOps:** Docker, Kubernetes, Jenkins, Terraform
- **Tools:** Git, Linux, SQL Developer
- **Cloud Platforms Services:** Compute/VM, Object Storage, Functions, Data Flow, OIC, Data Integration, Load Balancer, ATP, 23AI DB, Event Services, VCN, Gateways, GoldenGate

Certifications

Oracle Cloud Infrastructure Foundation

OCI Certified Architect Associate

OCI AI Foundations Associate

Oracle Database SQL Certified

Oracle Cloud Platform Application Integration Professional

Oracle Cloud Data Management