

# AJAY KUMAR

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## Education

**Cochin University of Science and Technology**, B.Tech in Information Technology 2018–2022

## Experience

**Application Engineer** Oracle, Hyderabad  
*Aug 2022 – Present*

- 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