Ankit Tayal

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Professional Certification

- **AWS Certified Cloud Practitioner (CLF-C02)**
- **GitHub Foundations**
- **Oracle Cloud Infrastructure 2025 Certified Foundations Associate**

Education

Year	Degree/Board	Institute	CGPA/%
Jun 2025	B.Tech in Industrial Internet of Things	University School of Automation & Robotics, GGSIPU	8/10
Apr 2021	CBSE (XII)	Lancer's Convent, New Delhi	81%
Apr 2019	CBSE (X)	Lancer's Convent, New Delhi	80%

Work Experience

- **Agentic AI Engineer** *(Jan 2025 - present)*
  Prodigal AI — Delhi, India
  - Co-developed modular agentic **AI frameworks** enabling automated multi-agent **workflows**, API integrations, and custom toolchains for scalable AI solutions including an Multi-speaker **AI podcast generator**.
  - Designed cloud-native, scalable **LLM inference pipelines** using Docker and Python, achieving 3x latency reduction and 30% lower resource costs, thereby enabling high-throughput model serving APIs.

- **Financial Research Engineer** *(Aug 2022 - Dec 2022)*
  Assetgro Fintech Pvt. Ltd. (StockGro) — Delhi, India
  - Engineered a real-time **data visualization** system by integrating Python microservices (Flask and WebSocket APIs) to revamp **live information** feeds and sections, driving a **15% increase in subscription** engagement and retention.
  - Developed a analytics pipeline leveraging **Python web scraping** (BeautifulSoup) and NSE **API integration** to fetch, process, and visualize real-time Nifty stock data using Pandas and NumPy, enabling trend identification.
  - Implemented financial reporting and market analysis using Python scripts that combined web scraping with NSE API calls to generate actionable equity research insights, enhancing overall **portfolio performance by 10%**.

Leadership Experience

- **Co-Lead in Cloud Computing and Founding Member** *(Aug 2023 - Aug 2024)*
  Google Developer Student Club USAR — Delhi, India
  - Organized two Google Cloud Study Jam **events** that featured Qwiklabs **hands-on GCP labs** achieving Tier 1 and providing 80 students with **GCP badges** and valuable **goodies**. **Founded the club** and grew membership to over **120 active participants**, while coordinating engaging sessions with guest experts, including speaker JK Gunnink.

Projects

- **Journal App – SpringBoot** | *JAVA, MongoDB, JWT, OAuth2, Kafka, Postman* | *GitHub*
  - Designed and deployed a secure, production-grade journaling **API** using Spring Boot, MongoDB, and JWT/ OAuth2 authentication, implementing modular RESTful endpoints with **role-based access control** and sentiment-tagged entries.
  - Integrated advanced backend features including **Spring Security**, **MongoDB Atlas**, **SonarCloud** quality gates, Google OAuth, while following clean architecture, TDD principles (**JUnit + Mockito**), and CI/CD practices with Railway.

- **Unified Academic Services Platform** | *Python, AWS, PostgreSQL, React.js, Node.js, RapidAPI* | *GitHub*
  - Developed a **full-stack Learning Management System** using Python, Django, PostgreSQL, HTML/SCSS, JavaScript with multilingual support and third-party integrations like Stripe, Celery, and **Redis**.
  - Deployed a scalable, high-availability platform on AWS with real-time updates, **secure authentication**, role-based access, followed **Agile** practices via **Jira**, improving team productivity by 30%.

- **Signature Authentication** | *Numpy, OpenCV, TensorFlow, Keras* | *GitHub*
  - Optimized signature datasets using advanced preprocessing (resizing, normalization, augmentation) with NumPy, OpenCV, **built deep learning models** (Shallow CNN, ResNet, Siamese) in TensorFlow/Keras for **BHSig260** & **CEDAR datasets**.
  - Developed a robust **forgery detection system** with 50% efficiency gain, evaluated performance using ROC curves, confusion matrix, accuracy/loss curves via SkLearn and Matplotlib.

Achievements

- *Internship Certificate*: Completed a 6-week **IBM** SkillsBuild **Summer Internship** Program in **Data Analytics** with CSRBOX.
- *Merit Certificate*: **1st Rank** in CryptoCon, 5-day trading event at **IIT Delhi**'s annual cultural fest, winning cash prize & goodies.
- Solved over 200 problems in Data Structures and Algorithms on platforms like Pepcoding.
- **Programming Languages:** Java, Python, C/C++, JavaScript. **Cloud:** AWS, GCP, Azure
- **Technologies:** DevOps, Terraform, Linux, Bash, Nginx, Docker, Kubernetes, Git, CI/CD, GitHub Actions, Jenkins, Travis CI.