

# Ankit Tayal

Github: [ankitT20](#)  
Linkedin: [ankit-tayal-ip](#)

Email: [tayalankit20@gmail.com](mailto:tayalankit20@gmail.com)  
Phone: +91-9953301972

## Professional Certification

- **AWS Certified Cloud Practitioner (CLF-C02)**

Issued: 2024 - 2028

## Education

Year	Degree/Board	Institute	CGPA/%
Jun 2025	Bachelor of Technology in Industrial Internet of Things	University School of Automation and Robotics, GGSIPU, New Delhi	8/10
Apr 2021	CBSE (XII)	Lancer's Convent, New Delhi	81%
Apr 2019	CBSE (X)	Lancer's Convent, New Delhi	78%

## Work Experience

- **Financial Research Analyst** (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 and executed two **Google Cloud Study Jam events** that featured **Qwiklabs hands-on GCP labs** and intermediate sessions- achieving Tier 1 status 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** to further enhance cloud computing initiatives.

## Projects

- **Signature Authentication** | *Numpy, OpenCV, TensorFlow, Keras, SkLearn, Matplotlib* | [GitHub](#)
  - Applied advanced preprocessing techniques such as resizing, normalization, and data augmentation using **NumPy** and **OpenCV** to optimize signature data sets.
  - Designed and fine-tuned deep learning models, including **Shallow CNN**, **ResNet**, and **Siamese Network**, using **TensorFlow** and **Keras**, achieving exceptional accuracy on BHSig260 and Cedar datasets.
  - Created a robust system for **forgery detection** in handwritten signatures, enhancing **verification efficiency by 50%**. Evaluated model performance using ROC Curves, Confusion Matrix, Accuracy and Loss Curves with **SkLearn**, **Matplotlib**.
- **Unified Academic Services Platform** | *HTML, CSS3, React.js, RapidAPI, Java Script* | [GitHub](#)
  - Developed web-based **Learning Management System** using **Python**, Django, **PostgreSQL**, HTML, SCSS, **JavaScript**.
  - Implemented multilingual support and integrated third party services like Stripe with **Celery** and **Redis** for efficient background task processing, ensuring a **scalable** and **user-friendly** platform for both students and faculty, streamlining course management, quizzes, payments, and result tracking for academic institutions.
  - Utilized **Agile methodology** with **Jira** for task management, resulting in a 30% increase in team productivity. Deployed a high availability system on **AWS Ubuntu Server**, focused on **real-time updates**, role-based access, secure authentication.
- **Risk analysis of portfolio** | *Python, Scipy, Numpy, Pandas, Matplotlib* | [GitHub](#)
  - **Portfolio Optimization**: Developed a model to maximize portfolio return considering covariance matrix and investment constraints, using **Python** for **data analysis** and optimization.
  - **Risk Analysis Tools**: Assessed statistical tools like Mean Absolute Deviation (MAD) and Conditional Value at Risk (CVaR) to measure and analyze investment risks.

## Technical Skills

- **Programming Languages**: Java 8, C/C++, Python, JavaScript.
- **Technologies**: Amazon Web Services, React.js, Node.js, Spring Boot, MySQL, PostgreSQL, Redis, Matplotlib, Numpy, Pandas, Tensorflow, Selenium, Machine Learning, Deep Learning, Docker, Kubernetes, DevOps, Azure, GCP, Git, Linux.
- **Coursework**: Data Structures Algorithms, Object-Oriented Programming, Operating Systems, Database Management System.

## 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.
- Ranked 5th in department during 2nd semester.