

Ankit Tayal

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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, Java SE 21.
- **Technologies**: AWS, Azure, GCP, Spring Boot, Node.js, React.js, MySQL, PostgreSQL, Oracle, Redis, Matplotlib, Numpy, Pandas, Tensorflow, Selenium, Linux, Networking, Git, GitHub, GitLab, Docker, CI/CD, Jenkins, Kubernetes, Nginx, DevOps.
- **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.