Ankit Tayal

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Education

Year	Degree/Board	Institute	CGPA/%
Jun 2025	B.Tech 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

- **Co-Lead in Cloud Computing and Founding Member** *(Aug 2023 - Aug 2024)*
  Google Developer Student Club USAR — Delhi, India
    - Organized and executed a successful **Google Cloud Study Jam event**, resulting in achieving Tier 1 status and **providing all 80 students with valuable goodies**, including a **Google Cloud certificate**, bag, t-shirt, bottle, and stickers.
    - Secured industry expert JKGunnink as a keynote speaker for multiple events to secure speaking engagements for cloud computing events, **increasing attendance by 300%** and enhancing the overall experience for participants.
    - **Led the founding of** the Google Developer Student Club at the university, growing membership to over **120 active participants** within the first semester of inception.
- **Financial Research Analyst** *(Aug 2022 - Dec 2022)*
  Assetgro Fintech Pvt. Ltd. (StockGro) — Delhi, India
    - Enhanced customer engagement by revamping **live information** sections, leading to a **15% increase in subscription sales** and retention rates.
    - Analyzed and **interpreted data on Nifty stocks to identify trends** and opportunities, resulting in a 10% increase in successful investment decisions.
    - Utilized equity research analysis skills to provide detailed financial reporting and stock market analysis, contributing to a **20% improvement in overall portfolio** performance.

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, SQL.
- **Technologies:** Amazon AWS, React.js, Next.js, Express.js, Node.js, HTML, CSS3, MySQL, WordPress, Matplotlib, Numpy, Pandas, Tensorflow, Selenium, Machine Learning, Deep Learning, Docker, DevOps, Azure, GCP.
- **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 **IIT Delhi**, Achieved 1st place in CryptoCon, a 5-day trading event at IIT Delhi's annual cultural fest, Rendezvous 2022, winning a cash prize and goodies.
- Solved over 200 problems in Data Structures and Algorithms on platforms like Pepcoding.
- Ranked 5th in department during 2nd semester.