Rohit Udaiwal

Software Engineer
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EDUCATION

- **Indian Institute of Technology(IIT), Guwahati** — Guwahati, India
  Bachelor of Technology (B.Tech) in Electronics and Electrical Engineering; CGPA: 8.38/10.0 — *June 2023*

- **MDS Public School** — Udaipur, India
  Class XII (CBSE); Percentage: 95.80% — *2019*

EXPERIENCE

- **JPMorgan Chase & Co** — Mumbai, India
  Software Development Engineer (JP Morgan Wealth Management) — *August 2023 - Present*
  - **Architected Scalable Data Pipelines**: Developed 50+ robust and scalable data pipelines deployed across multi-regions for collecting, processing, and storing diverse datasets in the central data lake within the Wealth Management line of business for Chase.
  - **Modernization**: Utilized technologies such as **Python, PySpark, Springboot, AWS, and Docker** to create and deploy high-performance data processing workflows at scale. Created an enterprise Spring Boot application adopted by 100+ teams as critical infrastructure.
  - **Automation and CI/CD Pipelines**: Developed and maintained robust **CI/CD** pipelines using **Jenkins and Docker**, which reduced deployment times by **70%**, supporting agile development practices and frequent release cycles.
  - **Technical Mentorship**: Mentored junior engineers & progressed in cross-team, high-pressure environments, contributing to strategic cloud initiatives and fostering a startup-like culture of **ownership and rapid innovation**.
  - **Community Engagement**: Hosted educational events and delivered training on **AWS** emphasizing continuous learning and professional growth for a cohort size of around 1k.

- **JPMorgan Chase & Co** — Bangalore, India
  Software Engineering Intern (Corporate Sector) — *June 2022 - July 2022*
  - **Data Storage Modernization**: Spearheaded a critical data storage migration project, transitioning 7+ years of trade data from **Cassandra to AWS S3**, resulting in a **7x cost reduction** and improved query performance by **40%**.
  - **Cost-Effective Solutions**: Identified and implemented cost-effective & high-performant storage solutions using Python.

PUBLICATIONS

- **Deep Learning based Automatic Modulation Classification** — IIT, Guwahati
  IEEE SPCOM '24 — *May 2023 - July 2023*
  - **Model**: Engineered an innovative quad-stream architecture combining **LSTM** networks and **attention** mechanisms to achieve automatic modulation classification of RF signals with **99 %** accuracy.
  - **Technical Implementation**: Implemented deep learning models using **TensorFlow** and **Keras** , incorporating custom attention layers and LSTM networks to process complex signal data.
  - **Impact and Applications**: Developed solution addresses critical needs in cognitive radio systems, military communications, and spectrum monitoring, demonstrating practical applications in both civilian and defense sectors.

TECHNICAL SKILLS

- **Languages**: C++, Python, Java, C, MySQL, JavaScript
- **Frameworks**: TensorFlow, Springboot, Django, React, Spark
- **Platforms and Services**: AWS, Kubernetes, Kafka, Terraform, Git, Jenkins, Linux, Dynatrace, Grafana, Snowflake

PROJECTS

- **Employee Attrition Prediction (COVID-19)** — IIT Guwahati, India
  Python, Tensorflow — *May 2020 - July 2020*
  - **COVID-19**: Used Logistic Regression to predict Employee Attrition by the given data about employee's history using the IBM Watson data set.
  - **Training**: Used Data Visualization, Data-preprocessing, Feature Engineering, Feature Selection, Feature Scaling, and Hyper-parameter Tuning to fine-tune the model.

- **Blogging Website** — IIT Guwahati, India
  Django — *August 2020*
  - **Technology stack**: Used Django framework to make a full-featured web application for blogging with features such as user registration, account management, and a secure way to reset passwords.

HONORS AND AWARDS

- **Codeforces**: Rated expert at codeforces with max rating of **1817**.
- **AWS Certified**: Solutions Architect – Associate (2023).
- **JEE Main 2019**: Ranked in the top **0.3%** among 1.3 million participants.
- **JEE Advanced 2019**: Secured a rank **4285** among India's most competitive engineering entrance exams.
- **NTSE**: Qualified for the national level by securing 140 out of 150 marks.