Mayank Taksande

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Education

Indian Institute of Information Technology, Allahabad 📅 2022
Bachelor of Technology (B.Tech) and Master of Business Administration (MBA) — CGPA: 8.01
Amrita Vidyalayam, Navi Mumbai 📅 2016
Secondary Education: 9.4 CGPA — Higher Secondary Education: 89%

Work Experience

Software Engineer (Backend), Airtel, Pune 📅 Jul 2022 – Present

- **Channel Backend Team:** Developed a **scalable** microservice for Self-KYC Reverification, validating user's image, video, Aadhaar, OTP, pincode etc. with over **90% JUnit** coverage, leveraging latest **Java 21** features.
  - Spearheaded development of complex **key REST APIs** handling over **33,000 daily hits** with **97%** success rate, ensuring seamless operations.
  - Extended functionality for online SIM acquisition by helping design seamless mWeb journeys, expected to eliminate store visits for **millions of potential Airtel customers**. Anticipated to **significantly boost new customer onboarding rates** and enhance accessibility, driving **increased market penetration and business growth**.
  - Participated in LLD discussions and coordinated with **5+ teams**, enabling seamless integration of **key features** across QA and Frontend teams. Played a pivotal role in streamlining development processes, reducing **integration delays by 20%**.
  - Implemented **logging integration** using the **ELK Stack**, processing **over 1 lakh API requests hourly**, and set up **4 Kibana dashboards** for real-time monitoring. Improved operational visibility and reduced debugging time by **50%** to a few minutes for all stakeholders.
- **SHOP Team:** Maintained and improved backend microservices managing **OTT subscriptions** with a **98.6% API success rate** and over **10,000 daily orders**.
  - Facilitated onboarding of new products, expanding offerings to include services like **CARE Insurance**.
  - Migrated legacy microservices from VM servers to **Airtel Cloud 3.0**, upgrading to **Spring Boot 3.x**, reducing deployment time by around 90% to **3 minutes**, and resolving **Black Duck and Coverity** issues.
  - Debugged critical production issues and minimized downtime while automating retry mechanisms for failed orders using **Python and Shell scripting**, reducing manual interventions and data analysis efforts by **more than 95%** from minutes to a few seconds.
  - Integrated **Grafana monitoring dashboards** tracking **50+ critical metrics** across **9 microservices**, improving system observability and reducing issue detection time. Collaborated with DevOps to containerize using **Docker**, reducing deployment time by **30%** and ensuring seamless releases across **4+ environments**.

Skills & Tools: Java, Python, Shell Scripting, Spring Boot, Maven, XML, MongoDB, SQL, Jenkins, Docker, RabbitMQ, Bitbucket, ELK Stack, Grafana, Jira, Confluence, Postman.

Projects

- **Emotion Detection AI from Speech (Group)**
  Built a neural network-based AI model achieving **99.64% accuracy** in classifying **2400 speech samples** into **7 emotion categories**. Extracted features like **MFCCs, Tonnetz, contrast, and chroma** using **Librosa** and evaluated performance against **KNN (98.57%)** and **Decision Tree (91.42%)** in **Jupyter Notebook**.

- **Modified VGG-16 for Image Classification (Individual)**
  Optimized the **VGG16 model** by applying sequential deep learning techniques to classify the **CIFAR-10 dataset** comprising **10 image classes**, achieving **86.8% accuracy** ⚙ GitHub Link

- **Battleship Space Shooter Game (Individual)**
  Created a single-player, **60 FPS** space shooter game using Java applets and OOP concepts, featuring multilevel gameplay with dynamic difficulty; enabled players to earn points (10 for obstacles, 30 for enemies) and progress through increasing challenges. ⚙ GitHub Link

Achievements and Interests

- Awarded for achieving **Rank 1** in Higher Secondary Examinations.
- Earned **gold** medal in National Science Olympiad and **certified as a scuba diver**.
- Organized events as a core member of *Effervescence*, managing over **50,000** attendees.
- Captained school football team to district-level tournament, improving teamwork and strategy.