Amulya Rawat

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Education

- **Indian Institute of Technology (IIT) Jodhpur** — Jodhpur, India
  Master of Technology (M.Tech) in Artificial Intelligence — *2019 - 2021*
- **Dr. A.P.J. Abdul Kalam Technical University** — Ghaziabad, India
  Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering — *2014 - 2018*

Technical Skills

Programming Languages: Java, Python, C, C++, JavaScript

Frameworks & Libraries: Spring Boot, JUnit, REST API, PyTorch

Tools and Platforms: Git, Jenkins, Postman, Jira, Google App Engine (GAE), Microsoft Power Automate, AWS, GCP

Databases: PostgreSQL, SQL

Miscellaneous: Microservices, Object-Oriented Programming(OOPs), Relational Databases, Data Structures and Algorithms, Queue Management, Transformers

Experience

- **WorkSpan** — Bengaluru, India
  Software Development Engineer I — *December 2022 - Present*
  - **Microsoft Partner Center Integration – Performance Optimization**
    - Identified and **resolved MPC referral submission failures** caused by **exceeding Dynamics 365's 100 concurrent request limit** (HTTP 429 errors)
    - Redesigned **Google App Engine** queue architecture and implemented **Python task handlers** to reduce concurrent requests by **60% (from 200 to 80)**.
    - Implemented **OData queues** with **80 requests/sec rate limiting** across 6 deployment environments, and refactored YAML configuration files for **Python 2.7 and 3.x compatibility**.
    - Eliminated all HTTP 429 errors, ensured compliance with **Microsoft's 95-request queue threshold**, and significantly improved system uptime and operational stability.
  - **Microsoft Services Co-Sell Integration**
    - Integrated Microsoft's 2024 **Services Co-Sell enhancements** by adding new fields across different platforms using **Java and Python**, enhancing product capabilities, which increased customer adoption by 10%.
    - Re-architected backend for **bidirectional integration** and ensuring **backward compatibility** with legacy Microsoft Connector APIs using **Python, REST API and Microsoft Power Automate**.
    - Automated **Referral submission processes** and resolved **cross-platform integration issues**, improving lead routing accuracy using **Google Cloud Platform (GCP), REST APIs and Jenkins**, resulting in a shorter co-sell cycle time by 5%.

Projects

- **Prediction of Activity Durations in Ubiquitous Sensor Data Using Bi-Directional LSTMs**: Developed a deep learning model **using PyTorch and Transformers** for classifying sensor-based activity durations. Achieved **5% improvement in precision (83% → 88%)** through data augmentation and attention-based architectures. Applied sequence modeling techniques to **automate label generation on unannotated data**.

Achievements

- Awarded 4th Place in **WorkSpan Hackathon 2025** for developing an AI-driven solution using **AWS Bedrock AI agent** to generate small business process automation (BPA) code based on pre-existing data.
- Received the **WorkSpan Spotlight of the Quarter** in **2024** for recognition of outstanding contributions.
- **Competitive Programming:** CodeChef 3-star (20+ contests), LeetCode 2-star (50+ contests)
- Secured 93.1 percentile in GATE EE 2019 among 0.1 million candidates.