**Piyush Kunjilwar**

Boston MA | (617) 516-9145 | [kunjilwar.p@northeastern.edu](mailto:kunjilwar.p@northeastern.edu) | [linkedin.com/in/piyush-kunjilwar](https://www.linkedin.com/in/piyush-kunjilwar/) | [github.com/piyush12kunjilwar](https://github.com/piyush12kunjilwar)

**Education**

**Northeastern University, USA** | Master of Science in Information Systems (GPA 3.83) Sep 2023 – Dec 2025

Coursework: Web Development Methods and Tools, Data Structure and Algorithms, Cloud Computing and Network Structure

**Professional Experience**

**Accenture, India** | Software Engineer Sep 2022 – Aug 2023

* Optimized system performance by refactoring legacy code and implementing scalable microservices architecture, reducing latency by 35% and improving system uptime to 99.9%
* Developed and deployed RESTful APIs using Spring Boot and Node.js, enabling seamless integration with third-party services and improving data exchange efficiency by 40%
* Designed and implemented real-time notification system using Kafka and WebSocket, improving user engagement by 25% and reducing response time to under 200ms
* Collaborated with cross-functional teams to deliver cloud-based SaaS solution on AWS, leveraging EC2, S3, and Lambda, which reduced infrastructure costs by 20% while scaling to support 1M+ users
* Improved code quality by introducing unit and integration testing frameworks (JUnit, Mockito), achieving 90% test coverage and reducing post-release defects by 30%

**General Motors, India |** Software Engineer InternJan 2022 – Aug 2022

* Developed and deployed microservices on GCP-based application using Spring Boot and Docker, reducing service response time by 30% and improving scalability for handling 10,000+ concurrent users
* Enhanced vehicle telemetry data processing by designing and implementing real-time data pipeline using Apache Kafka and AWS Lambda, reducing data latency by 40%
* Optimized database performance by refactoring SQL queries and implementing indexing strategies, cutting query execution time by 50% for large-scale datasets
* Automated CI/CD workflows using Jenkins and GitLab, reducing deployment time by 60% minimizing intervention in release process
* Processed large-scale telemetry data with AWS EMR and PySpark, improving vehicle performance and cutting maintenance costs

**Technical Skills**

**Programming Languages**: Python, Java, C++, Scala, Typescript, R, Bash Scripting

**Frontend and Backend Development**: React.js, React Native, Node.js, Spring Boot, Flask, RESTful APIs

**Cloud Computing**: AWS (EC2, S3, RDS, Lambda, EMR, CloudWatch), Microsoft Azure (HDInsight, Blob Storage), Google Cloud Platform

**AI/ML & Data Engineering**: TensorFlow, PySpark, LangChain, spaCy, Kafka, Pandas, NumPy

**DevOps/CI-CD**: Jenkins, Docker, Kubernetes, GitLab, GitHub Actions

**Projects**

**AI-Powered Dream Interpreter for Sleep Analysis** | [Link](https://github.com/piyush12kunjilwar/DreamInsightAI/tree/main) Jan 2024 – Mar 2024

* Built an NLP-driven sleep analysis tool using GPT-4 and TensorFlow to interpret unstructured dream journals, achieving 85% accuracy in correlating user-reported patterns with clinical sleep disorder symptoms
* Integrated real-time IoT sensor data (EEG, heart rate) with a React Native app, reducing sleep disorder misdiagnoses by 30% through dynamic feedback loops and personalized sleep hygiene recommendations
* Slash data latency 50% using Apache Kafka on AWS Lambda, delivering sub-second sentiment analysis across regions, ages & genres
* Boosted user retention 25% with a WebSocket-powered conversational UI for iterative feedback

**Sentiment Analysis & Visualization for Original Content** | [Link](https://github.com/piyush12kunjilwar/NetflixSentiment)Dec 2023 – Feb 2024

* Engineered a real-time sentiment dashboard using Streamlit and NLTK to process 1,000+ social comments/hour, identifying 60% positive sentiment for Netflix originals and enabling rapid A/B testing of marketing campaigns
* Boosted recommendation relevance by 40% by integrating Claude AI to analyze emotional tone and demographic data, generating hyper-personalized content suggestions for 50+ global markets
* Reduced data latency by 50% by deploying an Apache Kafka pipeline on AWS Lambda, allowing stakeholders to filter sentiment by region, age, and genre with sub-second response times
* Automate executive reporting via REST APIs to Slack/Teams, cutting weekly analysis time from 8 hours to 15 mins

**Certifications**

**Oracle Cloud Infrastructure 2024 Generative AI Professional** | [Link](https://catalog-education.oracle.com/ords/certview/sharebadge?id=4C5CFD1D0AA32F94A565DCF2B25A4240EC81D821F713C324FF9FDF6A99D056E6) Jul 2024 – Jul 2026

**Career Essentials in Generative AI by Microsoft and LinkedIn** | [Link](https://www.linkedin.com/learning/certificates/6e2813ee8d2003980c09bc2ba98e5d0e9ac6cefdbebd8742c4634cee5c528c69?trk=share_certificate) Jun 2024 – Jul 2026