

# Ajay Dyavathi

[ajaydyavathi.com](http://ajaydyavathi.com) • [linkedin.com/in/ajay-dyavathi](https://linkedin.com/in/ajay-dyavathi) • [github.com/AjayDyavathi](https://github.com/AjayDyavathi) • [ajaydyavathi@gmail.com](mailto:ajaydyavathi@gmail.com) • +15713319317

New Jersey, USA

---

## EXPERIENCE

### Pozent Corporation

New Jersey, USA

#### Python Developer

July 2024 - Current

- Backend lead for 5+ enterprise-scale applications, building scalable Python microservices.
- Designed and implemented REST APIs and service-to-service integrations using clean, modular architecture.
- Architected end-to-end system designs and process workflows from business requirements.
- Built and deployed cloud-native services on GCP (GKE, GCS, IAM).
- Containerized applications using Docker and deployed on Kubernetes (GKE).
- Integrated GenAI-driven backend features to automate workflows and enhance intelligence.
- Collaborated with frontend, data, and product teams to deliver production-ready systems.
- Performed code reviews, performance tuning, and backend best-practice enforcement.

### Avaamo.ai

Bengaluru, India

#### Conversational AI Engineer

Sep 2020 - 2021

- Designed and implemented machine learning models for conversational AI, improving response accuracy by 25%.
- Collaborated with cross-functional teams to refine chat agent lifecycle, resulting in scalable solutions.
- Improved website navigation efficiency and customer engagement by 30% through data analysis and actionable insights.
- Deployed and managed over 15 AI chat agents, continuously monitoring performance metrics to optimize user interactions.
- Utilized real-time analytics to revolutionize chatbot communication, significantly enhancing adaptability and precision.

---

## EDUCATION

### New York Institute of Technology

New York, USA

#### Master's Degree in Data Science (MSDS)

Jan 2022 - Dec 2023

- Cumulative GPA: 3.94/4.0
- Relevant Coursework: Machine Learning, Deep Learning, Statistics, Big Data Analytics, Databases.

### Jawaharlal Nehru Technological University

Telangana, India

#### Bachelor's Degree in Electronics and Communication Engineering (ECE)

Aug 2016 - Sep 2020

---

## SKILLS

- **Programming & Backend Development:** Python, SQL, RESTful API Development, Microservices Architecture, Object-Oriented Programming, Backend System Design
- **Cloud & DevOps:** Google Cloud Platform (GKE, GCS, IAM, Cloud Logging & Monitoring), Docker, Kubernetes, CI/CD Pipelines, Cloud-Native Application Development, AWS, Microsoft Azure (working knowledge)
- **Data Engineering & Databases:** ETL Pipelines, Data Modeling, Data Pipelines, MySQL, PostgreSQL, Google BigQuery
- **Machine Learning & Artificial Intelligence:** Scikit-Learn, TensorFlow, PyTorch, NLP, Feature Engineering, Model Training & Evaluation, Supervised & Unsupervised Learning, Deep Learning, Applied GenAI Integration
- **Data Analysis & Visualization (Supporting Skills):** Pandas, NumPy, Statistical Analysis, Time-Series Analysis, Tableau, Power BI, Matplotlib, Seaborn, Plotly
- **Big Data & Distributed Systems:** Hadoop, Apache Spark (PySpark), MLlib
- **Tools & Development Ecosystem:** Git, GitHub, Linux, Jupyter Notebooks
- **Professional Skills:** System Thinking, Problem Solving, Technical Documentation, Cross-Functional Collaboration, Stakeholder Communication

---

## ACADEMIC PROJECTS

### Urban Street Scene Understanding:

- PyTorch, UNet, SegNet, Cityscapes Dataset
- Designed and trained semantic segmentation models using UNet and SegNet to analyze urban street scenes.
- Built end-to-end data pipelines including preprocessing, augmentation, and exploratory analysis to improve model performance.
- Achieved ~90% segmentation accuracy, enabling reliable scene understanding for urban planning and traffic analysis uses.
- Authored a research paper detailing methodology and results, submitted to Neural Computing and Applications.