Ajay Dyavathi

<u>ajaydyavathi.com</u> • <u>linkedin.com/in/ajay-dyavathi</u> • <u>github.com/AjayDyavathi</u> • <u>ajaydyavathi@gmail.com</u> • +1 571-331-9317 Jersey City, NJ, USA - 07304

EDUCATION

New York Institute of Technology

Masters in Data Science (MSDS)

New York, USA Jan 2022 - Dec 2023

• Cumulative GPA: 3.94/4.

- Relevant Coursework: Machine Learning, Statistics, Big Data Analytics, Deep Learning, Databases.
- Publication: Optimizing Semantic Segmentation in Urban Landscapes through Deep Learning. waiting for approval.

Jawaharlal Nehru Technological University

Telangana, India

Aug 2016 - Sep 2020

Bachelor of Technology in Electronics and Communication Engineering

- Relevant Coursework: Programming (C, Java), Database Management Systems, MATLAB.
- Conducted a 3-day workshop and taught Arduino and Programming to almost 100 undergraduate students.
- Built an 8-bit computer on breadboards to understand the significance and logic of different modules.
- Built a 4 wheeled robot using Raspberry Pi with mobile and web navigation, facial recognition, and voice recognition.

PROFESSIONAL EXPERIENCE

Avaamo.ai Jan 2021 - Dec 2021

Conversational AI Engineer

- Innovated AI chat-bots, leveraging Data Analytics and Machine Learning for enhanced user interaction and satisfaction.
- Worked closely with teams across development, deployment, and monitoring to refine the chat agent lifecycle to scale.
- Improved website navigation efficiency and customer engagement by 30%, leading to better user experiences.
- Deployed and managed over 10 chat agents in production, with continuous monitoring and optimization.
- Revolutionized chat-bot communication by leveraging real-time analytics, significantly enhancing the adaptability and precision of user interactions.

Avaamo.ai Mar 2020 - Jan 2021

Conversational AI Intern

- Engineered 3+ AI chat agents using Natural Language Processing to streamline website navigation and service inquiries.
- Led the introduction of AI-driven customer support, significantly improving the provision of real-time assistance.
- Reduced user query response time from 3 seconds to 2 seconds through chat agent optimization.
- Leveraged expertise in AI, Natural Language Processing, and system optimization to enhance digital customer interactions.

SKILLS

Languages: Python, R, SQL (Data Analysis); C, C++, Java, Swift, HTML, PHP, Java Script (Software Development).

Machine Learning: NumPy, Pandas, Scikit-Learn, PyTorch, TensorFlow, Keras

Statistics: Statistical Analysis, Time-series Analysis, ANOVA, Hypothesis Testing, Bootstrapping.

Data Visualization: Matplotlib, Seaborn, Plotly, Bokeh, Dash (*Python*), GGplot (*R*), Tableau, Power BI.

Techniques: Data Extraction, Wrangling, Data Pipelines, Data Mining, Analysis, Feature Extraction, Supervised Learning.

Deep Learning: MLP, Computer Vision, DCNNs, RNNs, NLP, Transformers, GANs, Generative AI.

Big Data and Others: Hadoop, Spark (PySpark), Microsoft Azure, AWS, GCP, AI, MySQL, MongoDB, SQLite, Docker, Git. Soft skills: Collaboration, Communication, Problem Solving, Leadership, Team Management, Stakeholder Management.

PROJECTS

- <u>Urban Street Scene Understanding</u>: Employed PyTorch for UNet and SegNet models on the Cityscapes data set, achieving 90% accuracy in semantic segmentation. Highlighted deep learning and DCNN expertise in urban scene analysis.
- <u>BBC News Articles Clustering</u>: Leveraged K-means and advanced NLP for clustering 2225 BBC News articles, applied PCA for dimensionality reduction and LDA for topic naming, and visualized interactive results with t-SNE and Plotly.
- Lung X-ray Segmentation: Developed a U-Net transformer for lung segmentation in X-ray images, applying advanced processing methods to enhance quality and achieving an 82% IoU score, demonstrating proficiency in image segmentation.
- CIFAR-10 Image Classification: Engineered a DCNN with Residual and Inception blocks for CIFAR-10, reaching 90% accuracy. Optimized with callbacks, and learning rate schedulers, and integrated into a Telegram bot.
- ML-based Diagnosis Website: Designed a Django-based medical diagnosis web platform, integrating traditional ML models using scikit-learn and SQLite database for data handling, deployed on AWS EC2 cloud for enhanced scalability and reliability.

ACHIEVEMENTS

• Earned IBM Data Science Professional Certificate covering data analysis, machine learning, and Python in 6 months.