

# PRASOON RAJ

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## EDUCATION

Northeastern University, Boston, MA

Sept 2023 – June 2025

Masters in Applied Machine Intelligence – 3.96 GPA

Relevant Courses – Applications of AI, Predictive Analysis, Project Management

Kalinga Institute of Industrial Technology, Bhubaneswar, India

July 2015 – May 2019

Bachelors of Technology, Electronics and Electrical – 3.75 GPA

Relevant Courses – Object-Oriented Programming, RDBMS

## SKILLS

Technical Skills:	Machine Learning, Deep Learning, Python, LLM, NLP, Tensorflow, Keras, Pytorch, MySQL
Tools:	Microsoft PowerBI, MongoDB, SQL Server, Azure DevOps, Selenium, Postman, VBA
Cloud Services:	AWS(Bedrock, Lambda, S3, Kendra, DynamoDB, CloudFormation, EC2, Cognito)
Domain Expertise:	Healthcare, Retail, Public Sector

## WORK EXPERIENCE

Burnes Center for Social Change, Boston, Massachusetts

July 2024 – Dec 2024

Generative AI Product Development Co-op

- Developed an **AI-driven chatbot** utilizing **AWS Bedrock** and **Large Language Models (LLMs)**, enhancing procurement efficiency for Massachusetts executive office buyers by streamlining access to complex resources.
- Implemented a **Retrieval-Augmented Generation (RAG)** architecture with metadata tagging, enhancing search accuracy by 35% and decreasing user query resolution time by 25%.
- Designed a **knowledge conflict detection** system that identified and resolved 95% of document discrepancies, thereby reducing compliance risks for the buyers
- Conducted user research through interviews with sourcing, legal, and vendor teams, leading to a **70% increase** in user satisfaction with the procurement process.

Enquero – Genpact, Bengaluru, India

Aug 2022 – Aug 2023

Senior Data Scientist

- Implemented a **machine learning model** for a top **retail** brand, clustering items to identify low performers by similarity and region, resulting in a **15% cut** in production costs and an **8% rise** in net profit.
- Automated the entire sales and demand report generation process in **PowerBI** using **Python**, decreasing preparation time by **90%** and **reducing human effort** by **80%**
- Designed a Python script to **boost end-to-end advance analytics** for **10+** problem spaces across **5+** domains and integrated it with a **Flask API** to handle the user input and enable future application integration
- Trained **500 new interns** on **Deep learning** concepts and mentored them for the **GenAI Hackathon**, enhancing their skills and helping them build their solutions

Accenture, Bengaluru, India

June 2019 – Aug 2022

Data Science Analyst

- Developed a scrubbing tool for a leading **healthcare** company using **Python** and **Machine Learning** to remove sensitive client information from various file types, which **200+** clients utilized for over **80%** of their documents
- Optimized the image classification scrubbing tool using a CNN model with **TensorFlow-Keras** to **cut human effort by 70%** and further enhanced efficiency by integrating the YOLO module with PyTorch, **reducing manual effort** by an additional **15%**
- Designed an API using the **Django** Framework and **NLP** concepts, boosting user satisfaction by accurately identifying attributes from inputs and enhancing experience across 5 platforms.
- Produced detailed reports using web scraping and Computer Vision for **3000+** employees, enhancing decision-making.