

# PRASOON RAJ

Boston, MA | [prasoon.raj.041@gmail.com](mailto:prasoon.raj.041@gmail.com) | +1-(857)-991-9119 | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

**Northeastern University, Boston, MA**

**Sept 2023 – Jun 2025**

*Masters in Applied Machine Intelligence – 3.9 GPA*

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

**Kalinga Institute of Industrial Technology, Bhubaneswar, India**

**Jul 2015 – May 2019**

*Bachelor of Technology, Electronics and Electrical – 3.7 GPA*

*Relevant Courses – Object-Oriented Programming, RDBMS, Data Structure and Algorithms*

## SKILLS

<b>Technical Skills:</b>	Machine Learning, Deep Learning, Python, LLM, NLP, Tensorflow, Keras, Pytorch, MySQL
<b>Tools:</b>	Microsoft PowerBI, MongoDB, SQL Server, Selenium, Postman, VBA
<b>Cloud Services:</b>	AWS(Bedrock, Lambda, CloudFormation, etc.), Azure DevOps
<b>Domain Expertise:</b>	Healthcare, Retail, Public Sector

## WORK EXPERIENCE

**Burnes Center for Social Change, Boston, Massachusetts**

**Jul 2024 – Present**

**Generative AI Engineer**

- Devised an AI-driven chatbot powered by AWS Bedrock and LLMs, reducing procurement search time by 40% and streamlining purchasing workflows for Massachusetts executive office buyers.
- Implemented a Retrieval-Augmented Generation (RAG) system with intelligent metadata tagging, boosting document search accuracy by 35% and decreasing resolution time for procurement queries by 25%.
- Constructed a knowledge conflict detection mechanism that identified and resolved 95% of inconsistencies in regulatory documents, mitigating compliance risks.
- Orchestrated cross-functional user research with sourcing, legal, and vendor teams, refining procurement workflows and increasing adoption rates by 70%.
- Innovated a healthcare-focused AI solution using AWS Textract and Bedrock to enhance document retrieval and streamline knowledge access for operations teams, improving workflow efficiency within the Health and Human Services sector.

**Enquero – Genpact, Bengaluru, India**

**Aug 2022 – Aug 2023**

**Senior Data Scientist**

- Engineered an ML-based item clustering solution for a top retail brand, optimizing inventory planning and reducing excess stock by 15%, leading to an 8% increase in net profits.
- Streamlined sales and demand analytics by integrating Python scripts with Power BI, cutting report preparation time by 90% and reducing manual workload by 80%.
- Developed a scalable advanced analytics framework supporting 10+ problem spaces across 5+ domains, later integrating it into a Flask API to enable real-time decision-making.
- Mentored 500+ interns on deep learning concepts and practical AI applications, directly impacting the success of GenAI Hackathon projects.

**Accenture, Bengaluru, India**

**Jun 2019 – Aug 2022**

**Data Science Analyst**

- Designed a data scrubbing tool leveraging NLP and ML techniques to anonymize sensitive client information, adopted by 200+ clients and processing 80% of document workloads.
- Refined an image classification pipeline using CNNs and TensorFlow-Keras, automating 70% of manual data validation and reducing processing time by 40%. Further integrated YOLO with PyTorch, enhancing object detection efficiency by an additional 15%.
- Developed a Django-based API with NLP-driven attribute extraction, improving user query resolution rates by 60% across five enterprise platforms.
- Implemented a computer vision-based web scraping solution for real-time business intelligence, processing insights for over 3,000 employees to enhance department decision-making.