

PRASOON RAJ

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EDUCATION

Northeastern University, Boston, MA

Sept 2023 – June 2025

Masters in Applied Machine Intelligence – 3.95 GPA

(Expected)

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, R, 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)

WORK EXPERIENCE

Burnes Center for Social Change, Boston, Massachusetts

Jul 2024 – Present

GenAI Product Development Co-op

- Engineered and implemented an advanced chatbot solution utilizing **Retrieval-Augmented Generation (RAG)** technology, capable of processing **100+** documents to provide contextual support for Massachusetts state Executive Office employees.
- Orchestrated a robust **AWS**-based architecture leveraging Bedrock, Lambda, S3, Knowledge Agent, DynamoDB, and Guardrails, resulting in a 20% increase in project efficiency and a 15% reduction in delivery time
- Led the project problem definition phase, conducting thorough analysis to identify actionable strategies that deliver tangible benefits to the Commonwealth of Massachusetts and its workforce

Enquero – Genpact, Bengaluru, India

Aug 2022 – Aug 2023

Senior Data Scientist

- Developed a **machine learning model** for a leading **retail** brand to cluster articles based on similarity as well as availability in regions and find low-performing articles from similar article groups, which **reduced the production cost** by ~ **3%** for redundant articles and in turn resulted in **increasing the net profit** by ~ **5%** overall
- Automated the entire sales and demand report generation process of articles across various regions in **PowerBI** using **Python** to **increase time efficiency** by **90%** and **reduce human effort** by **80%**
- Designed a Python script that can perform **end-to-end advance analytics** for **10+** problem spaces across multiple 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 **GenAI Hackathon**.

Accenture, Bengaluru, India

June 2019 – Aug 2022

Data Science Analyst

- Developed a scrubbing tool for a leading **healthcare** company using **Python** and **Machine Learning** for removing sensitive information about clients from various file types, which **200+** clients utilized for over **10,000** documents
- Enhanced the scrubbing tool for image classification by implementing a **4-layered CNN** model using **Tensorflow-Keras**, which **reduced human effort** by **70%**. The image classification was later improved by integration of the **YOLO** module using **Pytorch**, which in turn further decreased manual effort by another **15%**
- Designed an API based on **Django** Framework, which uses **NLP** concepts to identify attributes based on user inputs and fetch smart results based on identified attributes which was later incorporated into 5 different platforms
- Engineered a dashboard by applying **logistic regression** on a dataset with **10,000+ rows** of data to determine different attributes and used them to gain insights and later visualize it using PowerBI
- Generated multiple reports for **3000+ employees** by performing web scraping and using **Computer Vision** techniques