PRASOON RAJ

 Boston, MA   prasoon.raj.041@gmail.com   in LinkedIn   ○ GitHub   ⊕ Portfolio

SUMMARY

AI Engineer with 4+ years of experience specializing in LLMs, prompt engineering, and scalable, secure GenAI systems. Delivered high-impact AI initiatives for multiple Fortune 500 companies and led the development of a GenAI-powered procurement platform for the Massachusetts government and presented it to state agency leaders at the State House.

EDUCATION

Northeastern University, Boston, MA   **Jun 2025**
Master of Applied Machine Intelligence   *GPA: 3.9*
Relevant Coursework: Applications of AI, Big Data and Data Management, Project Management

Kalinga Institute of Industrial Technology, Bhubaneswar, India   **May 2019**
B.Tech in Electronics and Electrical Engineering   *GPA: 3.7*
Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems

TECHNICAL SKILLS

Languages: Python, SQL
AI/ML: LLMs (OpenAI, Claude, Hugging Face), RAG, Prompt Engineering, AI Agents, NLP, Deep Learning, RAGAS
Frameworks: PyTorch, TensorFlow, Keras, Flask, FastAPI, LangChain
Cloud/Data: AWS (Bedrock, Textract), Azure DevOps, PySpark, FAISS, Git, CI/CD
Tools: Power BI, MongoDB, SQL Server, Postman, Docker
Domains: Public Sector, Healthcare, Retail

WORK EXPERIENCE

Burnes Center for Social Change   **Jan 2025 – Present**
Generative AI Intern   *Boston, MA*

- Built an intelligent agentic document search system for Health and Human Services (HHS) IT operations using AWS Kendra, reducing document retrieval time by 60% and accelerating ticket resolution for 500+ support staff.
- Designed LLM agents with AWS Bedrock, and led development of a RAGAS-based evaluation pipeline that improved response quality scoring by 25% across critical use cases.
- Mentored 10+ co-op students in developing GenAI solutions for different state government agencies, achieving an 85% success rate in prototype delivery and enabling 5 projects to demo at institutional showcase events.

Burnes Center for Social Change   **Jul 2024 – Dec 2024**
Generative AI Engineer Co-op   *Boston, MA*

- Partnered with the Operational Services Division (OSD) to streamline procurement workflows by developing a generative AI chatbot with AWS Bedrock and Knowledge Base, reducing document lookup time by 60%.
- Implemented a metadata-enhanced RAG pipeline supporting mixed document types (images, videos, PDFs), boosting document discoverability and reducing resolution time by 25%.
- Spearheaded a conflict detection system, collaborating closely with compliance teams to enhance data reliability and improve regulatory alignment by 40%.

Enquero – Genpact   **Aug 2022 – Aug 2023**
Senior Data Scientist   *Bengaluru, India*

- Collaborated with a US-based global sportswear brand to design an inventory clustering model, aligning cross-functional teams to optimize product launches, reduce overstock by 15%, and boost profitability by 8%.
- Engineered a modular analytics framework and integrated Python models into Power BI, reducing reporting time by 90%.
- Acted as a lead coach in Genpact's GenAI Hackathon, guiding 500+ freshers through prototype design and creation, resulting in three winning entries showcasing innovative generative AI applications.

Accenture   **Jun 2019 – Aug 2022**
Data Science Analyst   *Bengaluru, India*

- Architected an NLP and computer vision-based anonymization system to automatically redact client-specified names and brand logos from documents, automating 80% of redactions across 200 enterprise clients.
- Enhanced the system with image classification (CNNs with TensorFlow-Keras, YOLO with PyTorch), boosting accuracy by 15% and processing speed by 40%.
- Delivered a full pipeline integrating Django NLP APIs with real-time computer vision scraping, powering dashboards used by 3,000+ employees.