

# Radhika Mangroliya

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## SUMMARY

Engineer with 5+ years of experience in software development, AI, and data science, specializing in scalable application development, Generative AI solutions, and predictive analytics models. Proficient in Python, React.js, AWS, and ML frameworks, with a proven ability to optimize cloud infrastructure and deliver secure, data-driven, and user-focused solutions.

## SKILLS

**Machine Learning & AI:** TensorFlow, PyTorch, XGBoost, Scikit-learn, generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), prompt engineering, semantic search, text analytics, automation, decision-support systems, Hadoop

**Data Engineering & Automation:** Snowflake, SQL, Pandas, NumPy, ETL pipelines, data cleaning, transformation, validation, business insights, Data Analysis

**Languages:** Python, Java, JavaScript, TypeScript, SQL, C/C++, R, Scala, Angular

**Cloud-Based MLOps & DevOps:** AWS (Lambda, S3, Bedrock), Docker, Jenkins, Kubernetes, CI/CD, model versioning, scalable AI deployment, Microsoft Power Platform

**Analytics & Visualization:** Statistics, Tableau, Power BI, Matplotlib, data visualization, performance metrics, insight generation, Spark

**Certifications:** AWS Cloud Practitioner (2024), Python for Machine Learning (DePaul University)

## WORK EXPERIENCE

### Bluesap Solutions Inc

New York, NY, USA

June 2024 - Present

*AI and Data Automation Engineer*

- Designed **AI-powered sales insights pipeline** using **Python, Tableau, and SQL** to analyze jewelry sales, seasonal demand, and customer behavior, improving forecast accuracy by 20%.
- Developed **personalized recommendation models** with **NLP & Generative AI**, increasing customer engagement and repeat purchases by 15%.
- Automated **data aggregation workflows** with AWS Lambda and serverless pipelines, reducing manual data handling by 70%.
- Built predictive inventory analytics models, reducing stockouts by 25% and optimizing vendor reordering.
- Developed **scalable e-commerce & jewelry platforms** with secure payments, product catalogs, and role-based portals, boosting catalog accuracy by 35% and reducing stockouts by 25%.
- Automated deployments and workflows using **CI/CD pipelines (Docker, Jenkins, Kubernetes, and AWS Lambda)**, reducing release cycles by 40% and cutting manual workload by 10+ hours per week.
- Collaborated in **Agile/Scrum teams** to deliver retail solutions, boosting project speed and client satisfaction.

### Cerebulb

Gift City, Gandhinagar, India

January 2021 – November 2023

*Data Science Intern*

- Engineered an **end-to-end video summarization system** leveraging deep learning (Object Detection + Text Summarization), integrated into the company website, reducing manual review time by 40%.
- Incorporated **CNN for object detection** and **LSTM-based caption generation with attention**, improving summary accuracy by 15% over baseline methods.
- Optimized **time-series forecasting models** on industrial datasets (chemical, cement, mining), improving predictive accuracy by 8% and achieving density forecasts within 0.7% of the optimum, enabling predictive maintenance and reducing downtime.
- Built and deployed **interactive dashboards** (Matplotlib) to visualize IoT sensor data in real time, enabling engineers to monitor density and temperature variations, reduce reporting delays by 60%, and improve process stability by 15%.

## PROJECT

### CareerFit AI – Resume & Job Match Assistant (Independent Project)

August 2025 – Present

- Designed and built an **AI-powered** resume and job-matching platform that analyzes job descriptions and resumes using **TF-IDF** and **XGBoost** to compute skill-match scores and identify missing keywords.
- Built a **Generative AI resume enhancer** powered by **LLMs** using **AWS Bedrock (Claude)** to automatically rewrite resumes and improve ATS keyword coverage by 30%, and developed a full-stack application with **React.js** frontend and **AWS Lambda + S3 backend** for scalable, **secure AI** inference and data processing.
- Engineered an **end-to-end ML pipeline** for data cleaning, training, and deployment with **Python, Pandas, and Scikit-learn**, integrating **interactive dashboards** to visualize job skill alignment insights and enhance user experience through data-driven resume optimization.

### LLM Post-Training & Reinforcement Learning Pipeline (Independent Research Project)

July 2024 – March 2025

- Created end-to-end **AI workflow orchestration** using **ChatGPT API, Zapier, and FastAPI**, automating communication and project tracking across teams.
- Integrated **Claude and Gemini models** for prompt optimization and summarization, improving team documentation efficiency by 35%.

## EDUCATION

### DePaul University

Chicago, IL

*Master of Science - Computer Science | GPA: 3.5/4*

January 2024 – August 2026 (Expected)

### Gujarat Technological University

Gujarat, India

*Bachelor of Engineering - Information Technology | GPA: 3.8/4.*

June 2018 – June 2022