

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

AI and Data Automation Engineer

June 2024 - Present

- 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

Data Science Intern

January 2021 – November 2023

- 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