

ANUSHRI BHANSALI

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EDUCATION

North Carolina State University, Raleigh

August 2023 to May 2025

Master of Computer Science

GPA:3.81/4

Database Management Systems, Design and Analysis of Algorithms, Automated Learning and Data Analysis, Software Engineering, Efficient Deep Learning, Neural Networks, Programmer Centered Design and Research, Real Time Machine Learning & AI

Charotar University of Science and Technology, Gujarat, India

June 2019 to May 2023

Bachelor of Technology in Computer Science and Engineering

GPA:9.58/10

Awarded Undergraduate Student Fellowship

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C++.
- **Frameworks & Tools:** Flask, React.js, Node.js, Azure DevOps, AWS, Databricks, Docker, Kubernetes.
- **Databases:** PostgreSQL, MySQL.
- **AI Engineering:** NumPy, Matplotlib, NumPy, Scikit-learn, Lightweight CNNs, Apache TVM, Machine Learning Compilation Code.
- **Practices:** Agile/Scrum, Design Thinking, API Development.

WORK EXPERIENCE

Lexis Nexis, Raleigh, NC, United States

June 2024 to August 2024

Software & AI Engineering Intern-Distributed Content Search

- Fine-tuned Large Language Models (Meta Llama, Mixtral), achieving a 60% improvement in search testing framework performance.
- Implemented scalable REST APIs and integrated LLMs using Databricks workflows, enhancing AI-driven feature functionality and reducing response latency by 35%.
- Collaborated with cross-functional teams to define requirements and document solutions.

Hints Lab, North Carolina State University, Raleigh, NC, United States

March 2024 to June 2024

Software Engineering Graduate Research Assistant

- Refined machine learning education through the development of an interactive learning portal using React.js and Flask.
- Designed and implemented interactive quizzes and immersive data visualizations, resulting in a significant boost to student engagement levels by 40% while improving comprehension metrics for course material by 35%.
- Engineered a scalable backend using PostgreSQL for efficient data handling.
- Leveraged Docker and Kubernetes to containerize services and streamline deployment in a cloud-based setup.

Netweb Software, India

June 2021 to August 2021

Software & AI Engineering Intern

- Built a real-time updating feature in the resume parsing platform, enabling recruiters to process 50+ resumes daily, leading to a 30% increase in interview scheduling efficiency.
- Engineered a vector-based semantic ranking pipeline using embeddings and RAG for context-aware candidate-job alignment, boosting shortlisting precision by 45%.
- Developed Java REST APIs and integrated a responsive React frontend with PostgreSQL backend, reducing recruiter workload by 15+ hours per week and accelerating hiring through AI-assisted shortlisting.

Cygnnet Infotech, Ahmedabad, Gujarat, India

June 2021 to August 2021

Software Engineering Intern

- Delivered a high-performance dashboard solution using Angular, Flask, and PostgreSQL within 1.5 months.
- Honored with outstanding performance recognition due to rapidly mastering new technologies necessary for dashboard solution implementation; completed the task well on schedule with 0 critical bugs and 100% feature completion.

PROJECTS

LLM-Driven Healthcare Support System:

- Created a healthcare platform integrating Disease Prediction and Q&A models using RoBERTa, Python, and Flask.
- Designed a React.js frontend and a secure PostgreSQL database to manage patient information.
- Facilitated efficient interaction between application components through the implementation of RESTful APIs, resulting in reduced data retrieval times by 20% and improved overall system responsiveness.

Data-Driven Movie Recommendation System

- Engineered a high-accuracy recommendation model on the Netflix Prize dataset using matrix factorization and SVD, achieving an 18% improvement in NDCG through grid search and Bayesian parameter optimization.
- Conducted exploratory data analysis to extract user behavior signals, driving model refinements and enhancing personalization strategies.