

# Ronakkumar Bhagchandani

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## EDUCATION

### Indiana University Bloomington

Master of Science in Computer Science **GPA: 3.89**

Aug 2022 - May 2024  
Bloomington, Indiana.

### Gujarat Technological University

Bachelor of Engineering, Computer Engineering, **GPA: 3.67**

Aug 2016 - Apr 2020  
Gujarat, India

## WORK EXPERIENCE

### Bloom Insurance

May 2023 – Dec 2023

**Software Developer Intern** - SQL, JavaScript, Jira, Raygun, MSSQL, GitHub, Git, .Net, C, JQuery

- Re-engineered high-quality software solutions, and solved bugs using C#, JavaScript, CSS, JQuery.
- Optimized the health care website like Wellcare, with a 12% increase in performance (Reduce Page Load Time).
- Build a custom "Sensitive" field type for hiding sensitive data with custom functionality and wrote E2E Tests.
- Collaborated with data team to enhance database design & managed over 50k records using MSSQL database system.

### Indiana University - Kelley School Of Business

Dec 2022 – May 2023

**Research Assistant** - Python, Jupyter Book, Sphinx, Pandoc, Latex, Linux

- Built a pre-defined Tufte-LaTeX in Jupyter-Book using Python, resulted in improve project documentation and 25% increase in users satisfaction.

### Freelancer

Mar 2021 – Jun 2022

**Software Developer** - Django, Linux, Machine Learning, Kubernetes, Data Analysis, Docker, Data Visualization

- Developed multiple deep learning, reinforcement learning and machine learning models using PyTorch, Random Forest, Adaboost, TensorFlow and CNN, DNN architectures, achieved an accuracy on computer vision (object detection (93.9%)), predictive modeling (94%), forecasting (92.8%) and NLP tasks (88%).
- Leveraged techniques like generative adversarial networks, Bayesian hyperparameter optimization, explainable AI to enhance model performance.
- Integrated ML & DL models into applications and web apps built with Django & Flask and integration with SQL and NoSQL database like Oracle, MySQL, MongoDB, individually developed end to end projects.
- Integrated Kubernetes into CI/CD pipelines for automated testing, deployment, and monitoring.

## PROJECTS

**ATS-Get Job** – Python, Django, Distributed System, S3 Bucket, EC2, RDS, Sagemaker, REST API, AWS

- Lead a team of 4 to deployed a distributed web application (EC2) that simplifies job hunting by analyzing resumes (stored in S3), processed them with Bert-NLP Model (Sagemaker), delivering personalized job recommendations from Adzuna and resume score along with missing skills using GPT-3.5 (OpenAI API).
- User data is securely managed in RDS, ensuring privacy. Experience seamless job searching with our intuitive interface.

**Generative AI-Powered App with Gorilla LLM** - Hugging Face, TensorFlow Hub, API, Gorilla - 7B, Streamlit

- Build a Generative AI powered app with the help of Gorilla - LLM, which provide ans, the model (from Hugging Face, TensorFlow Hub) that is used to ans the question and a dynamic user interface.

**Sentiment Analysis for IMDB Movie Reviews** - Natural Language Processing, TF-IDF, BERT, SVM, Django

- Trained SVM & fine-tuned a BERT model for sentiment classification, resulted in 85% validation accuracy.
- Integrated solutions into production with Django, with monitoring & retraining pipelines for handling new reviews.

**Contextly** - Startup, LaTeX, Python, Django, PostgreSQL

- Architected and built a SaaS web application aimed at simplifying the creation and editing of professional-quality documents without requiring knowledge of LaTeX from ideation to launch using agile methodology.
- Collaborated with 100+ Software Engineer to test my project (A/B Test) and collected feedback. Utilized by 700+ Computer Engineer student & 50+ professors at GTU to write LaTeX document.

## PUBLICATIONS & ARTICLES

- Bhagchandani, R. (2023). **Reducing Bias in Machine Learning Models with MinDiff Model**. Medium.
- Bhagchandani, R., Panchal, J. & Shah, R. (2021). **Smart Watch Ensuring Safety & Security**. IRJET - YOLO.

## PROGRAMMING SKILLS

**Programming/Query Languages:** Python, Java, SQL, C#, C++.

**Web Technologies:** JavaScript, React, Angular, Bootstrap, Node.js, Django, TypeScript, Spring-Boot.

**Machine Learning:** Supervised-Unsupervised Learning Algorithms, Clustering Techniques, Deep Learning Techniques, Time-series Forecasting Techniques, Conversational AI, Imitation Learning, Self-Supervised Learning, AI Solutions.

**Generative AI:** LLMs, Prompt Engineering, LangChain, and Prediction Guard.

**Other:** Docker, Power BI, Tableau, MySQL, PostgreSQL, Hadoop, Linux, NoSQL, Oracle, OS, AWS, GCP.

## CODING CONTEST

- Leetcode - 1620 (Top 20% all over the globe)
- Codeforces - 1313