

# Ronakkumar Bhagchandani

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## EDUCATION

### Indiana University Bloomington

Master of Science in Computer Science **GPA: 3.84**

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 – Present

**Software Developer Intern** - SQL, Javascript, Jira, Raygun, MSSQL, Vanila Javascript, Git, .Net, C#, JQuery

- Re-engineered high-quality software solutions, solve bugs and collaboration with cross-functional teams with maintaining documentation using C#, Javascript, CSS, JQuery. Optimized the health care website like Wellcare, Zing Health in C#, JQuery, resulting in a 12% increase in performance (Reduce Page Load Time).
- Utilized Figma for prototypes & web page design for Health Risk Assessment form, managed Jira tickets to track & solve bugs, harnessed Raygun for debugging, teamwork in issue resolution and GitHub for version control.
- Collaborated with the Data team to enhance database design and optimize over 50k records using MSSQL.

### 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, resulting in improved project documentation, visualization and 25% increase in users satisfaction and understanding.

### Freelance

Mar 2021 – Jun 2022

**Python Developer** - Python, Django, Flask, Linux, Machine Learning, Data Analysis, Database, Docker

- Designed and implemented web based scalable applications end-to-end using Python, Django/Flask with integration with MySQL, PostgreSQL Database, and front end stack, achieving 95% client satisfaction.
- Developed deep learning, reinforcement learning and machine learning models using Random Forest, Adaboost, TensorFlow and CNN, DNN architectures, achieving an average of 85% accuracy on computer vision, object detection, predictive modeling, forecasting and NLP tasks with PCA, LDA feature selection techniques for many clients including 1 startup, and 1 security agency.
- Machine learning models were used for log aggregation, monitoring, prediction, forecasting, and analytics for 5+ projects.

## PROJECTS

**TourMate** – Python, Django, BootStrap, Jenkins, Web Development, SQLite, Render, REST API

- Created a Tour Management System website using Python and Django with SQLite Database and API integrations, enabling users to search for travel destinations, plan itineraries, and make bookings.
- The API integrated are: Amadeus(Hotel Booking), Sandbox(Paypal Payment Gateway), Google API (Google Login), OpenAI API, Bit.io API (Online Database), Render(Deployment)

**Sentiment Analysis for IMDB Movie Reviews** - NLP, TF-IDF, BERT, SVM, Monitoring Pipeline, API, Django

- Preprocess movie review text data and vectorize using TF-IDF to generate feature vectors.
- Train SVM model and fine-tune BERT to classify sentiment, optimizing for 82.37% validation accuracy.
- Integrate via APIs into production with Django. Set up monitoring & retraining pipelines for new reviews.

**Contextly** - 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 in 5 months using agile methodology.
- Utilized by 700+ Computer Engineer student and 10+ 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, C#, C++, SQL, Java, JavaScript

**Web Technologies:** Django, Flask, Spring-Boot, .Net, TypeScript, AngularJS, JQuery

**Dev Tools and Databases:** Docker, Power BI, MySQL, PostgreSQL, Distributed Systems, MongoDB, Oracle.

**Other:** API, AWS, Cloud Computing, Unix, Machine Learning, Kubernetes, OS, Object-Oriented Design

## LEADERSHIP - EXTRA CURRICULAR - ACHIEVEMENT

- Rank in top 27% LeetCode all over the globe.
- Finalist in Cheng Wu Innovation Challenge, showcasing Research work to industry leaders.