Ronakkumar Bhagchandani

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EDUCATION

Indiana University Bloomington — Aug 2022 - May 2024
Master of Science in Computer Science **GPA: 3.84** — Bloomington, Indiana.

Gujarat Technological University — Aug 2016 - Apr 2020
Bachelor of Engineering, Computer Engineering, **GPA: 3.67** — 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, statistical modeling 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 (user-centric) aimed at simplifying the creation and editing of professional-quality documents without requiring knowledge of LaTeX from ideation to launch 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 & Databases: MySQL, Docker, Kubernetes, PostgreSQL, MongoDB, Oracle, API Design & Integration
Other: AWS, Cloud Computing, Unix, Object-Oriented Design, Machine Learning, Distributed Computing

LEADERSHIP - EXTRA CURRICULAR - ACHIEVEMENT

- Rank in top 22% LeetCoder all over the globe.
- Finalist in Cheng Wu Innovation Challenge, showcasing Research work to industry leaders.