GUNJAN VIVEK SWAMY

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EDUCATION

University at Buffalo, The State University of New York — **Buffalo, NY**
Master of Science, Computer Science & Engineering — **February 2023**

Ramdeobaba College of Engineering and Management — **Nagpur, IN**
Bachelor of Engineering, Computer Science and Engineering — **June 2017**

PROFESSIONAL EXPERIENCE

Accenture Solutions Pvt. Ltd — **Mumbai, IN**
Senior Software Engineer — **June 2017 - August 2021**

- Responsible for planning, designing, developing, testing, and troubleshooting distributed multitier **JAVA** Application (retail system).
- Enhanced the application to make it GDPR compliant using **Spring Boot**, **RESTful** web services in **JSON** format under strict deadline which resulted in savings of **£17.5 millions**.
- Conceptualized and developed online ordering system for seamless functioning of over **1000** retail stores in UK and Ireland during covid and helped client increase sales by **60%**.
- Solely led the effort to analyze areas in existing backend code for improving code quality. Automated client-side deployment process using shell-scripting and RPA software (Automation Anywhere) to reduce manual efforts by **92%**. The service is being extensively used by **12+** development and testing teams across project.
- Collaborated closely in Scrum **Agile** Environment with Solution Architects and Clients (domestic and international teams) in identifying project requirements and brainstorm ideas regarding new designs and prototypes.
- Supervised and mentored **10** junior team members, driven projects end-to-end, delegated tasks and ensured all collaborators were staying on schedule and meeting delivery dates, provided counsel on every aspect of the project.

SKILLS

Languages: JAVA, Python, C#, JavaScript, HTML, CSS
Databases: MySQL, Postgres, SQLite, Oracle, MongoDB
Cloud/Certifications: AWS Developer Associate, Microsoft Azure (Fundamentals), Google Cloud Platform
Tools/Frameworks: DbVisualizer, Intellij, Apache Solr, JIRA, Git, Flask, Lucene, Elasticsearch, TensorFlow, Pytorch, Keras
Others: Self-Motivated, Quick-Learner, Detail-Oriented, Strong communication skills

ACADEMIC PROJECTS

Sonar Email Tracking System — **December 2022**

- Chrome Extension written in **JavaScript** to incorporate read receipts in Gmail using **Spring Boot, Restful APIs** deployed on **AWS EC2**. It has various features, such as toggle extension on/off for email. Get a reminder if the recipient has not opened email for specific number of days. Dashboard to view user account settings.

Information Retrieval Chatbot – Associated with University at Buffalo — **December 2022**

- Implemented and deployed on **Google Cloud Platform** information retrieval based multi-topic chatbot written in **Python** with features like pseudo faceted search, context management on chitchat and **200K** reddit submissions. The dataset is used to train the Machine Learning Neural Network Model to differentiate among chitchat and reddit queries.
- For reddit queries get top 10 results using similarity classes (BM-25 model) and sent these results to **BERT** for re-ranking.

Robust Learning System for Large-Scale dataset - Associated with University at Buffalo — **November 2021**

- Proposed and Implemented a Deep Learning model for noisy, multiclass, and imbalanced MNIST dataset, using SVM as pre-processor for Label- Distribution-Aware Margin Loss DL model in **Python**. The new model was able to achieve **98.76%** accuracy on imbalanced and asymmetric noisy MNIST dataset.
- Principal Component Analysis was used to reduce the dimensionality of data and pick the best features.

Smart Fire Alarm System

- Designed and built machine learning model using **C++** and **OpenCV** to recognize fire in video images using static and dynamic properties of flame such as geometry, texture, motion, color.
- Candidate region obtained from above process is used to extract various features such as circularity, square, aspect ratio, roughness, entropy, energy, contrast, and homogeneity. Employed gray level co-occurrence matrix method to calculate texture features. SVM model predicts on the test dataset and classify the image as fire or no-fire with **96.08%** accuracy.