# Harsh Manishkumar Shah

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## SUMMARY

**Software Engineer** and Master's graduate with **1+ years of experience** in software development and a strong foundation in **Machine Learning**, **Data Science**, and **Software Engineering** principles. Proficient in building scalable solutions using **Python**, **C++**, and cloud platforms (**AWS**, **GCP**). Demonstrated ability to solve complex problems, optimize algorithms, and collaborate within **Agile** teams. Passionate about leveraging technology for innovative solutions in tech and finance domains. *Eligible to work in the U.S. (F-1 OPT visa).*

## EDUCATION

**Texas A&M University, College Station, TX** **Aug 2023 - May 2025**
*Master of Computer Science* GPA: 3.8/4.0

**SRM Institute of Science and Technology, Chennai, India** **Jun 2018 - May 2022**
*B. Tech in Computer Science and Engineering* GPA: 4.0/4.0

## TECHNICAL SKILLS

- **Programming**: **Python**, **C++**, C, **SQL**, PL/SQL, HTML/CSS, Ruby on Rails (basic).
- **Frameworks & Libraries: TensorFlow**, **Keras**, **Scikit-learn**, NumPy, Pandas, Matplotlib, Seaborn.
- **Databases: MySQL**, **Oracle SQL.**
- **Cloud & Tools: AWS**, **Google Cloud (GCP)**, IBM Watson; **Git**, Linux, Docker (basic), CI/CD (basic).
- **Methodologies: Agile (Scrum)**, Test-Driven Development (TDD), **Object-Oriented Design.**
- **Areas of Expertise: Machine Learning**, **Deep Learning**, **Natural Language Processing**, **Data Analytics**, **Cybersecurity.**

## EXPERIENCE

**Haricomp Systems |** *Software Engineer* **Jul 2022 – Jul 2023**
- Developed and optimized financial software applications in **C++ and Python**, improving processing speed by 20%.
- Implemented new features and enhancements for core products, ensuring high quality through code reviews and unit testing.
- Collaborated with cross-functional teams in an **Agile environment** to deliver solutions on time and improve product stability.

**Haricomp Systems |** *Software Engineering Intern* **Jan 2022 - Jul 2022**
- Engineered data processing modules in **C++ and Python**, increasing operational efficiency by 20%.
- Executed rigorous debugging and testing procedures, reducing software errors by 15%.
- Analyzed client requirements and data to generate reports, enhancing data-driven decision-making by 30%.

## ACADEMIC PROJECTS

**CastNXT: Streamlined Talent Recruitment Platform** **Aug 2024 - Dec 2024**
- Developed Group DM and Announcement features to enhance communication between Talent (Users) and Producers (Admin).
- Fixed UI issues and wrote Cucumber scenarios for Talent (User) functionalities using **Ruby on Rails**, ensuring seamless functionality and testing.
- Collaborated within an **Agile environment** to deliver iterative improvements for the platform.

**NIST and POAM Implementation for Corsair Company** **Aug 2024 - Dec 2024**
- Developed and implemented **Access Control (AC), Contingency Planning (CA), and Physical and Environmental Protection (PE)** control families, ensuring compliance with **NIST 800-53 standards.**
- Streamlined the creation of **Plans of Action and Milestones (POAM),** reducing resolution timelines for identified risks.
- Facilitated security assessment processes, enhancing system resilience and regulatory adherence for Corsair Company.

**Skill-Based Job Recommendation and Upskilling System Using BERT Embeddings** **Jan 2024 - May 2024**
- Facilitated job matching by recommending positions aligned with user skills, improving job search accuracy.
- Processed 1.3 million job titles and skills using **BERT embeddings**, optimizing the recommendation algorithm.
- Suggested top 10 upskilling opportunities based on job similarity analysis, enhancing user employability.

**Credit Card Fraud Detection Advancements: Comprehensive Study Integrating Machine Learning Technique** **Aug 2023 - Dec 2023**
- Conducted in-depth machine learning technique comparison (**KNN, Decision Tree, Gradient Boosting)** for card fraud detection, evaluating 1,000+ credit card transactions by European cardholders in September 2013.
- Analyzed and processed transactions using data preprocessing techniques, including SMOTE, to address class imbalance.
- Implemented advanced models, including Stacking Classifier **(RF and LR)** and Voting Classifier **(RFC and XGBoost),** achieving accuracy rates up to 99.95% in a team of 2 researchers.

**US Share Market Analysis - Dow Jones Companies** **Aug 2023 - Dec 2023**
- Utilized yfinance and Python to collect and preprocess financial data for 30 stocks, improving accuracy by 20%.
- Engineered and deployed Streamlit web applications, boosting user engagement by 30%.
- Developed and presented 7 visualizations **(Tree maps, Multiline charts, OHLC graphs, Candlestick plots, Line graphs)** for 30 Dow Jones companies across timeframes: 1 day, 7 days, 1 month, 6 months, 1 year, 3 years, 5 years.

## PUBLICATION

- Shah Harsh Manishkumar; P Saranya. Detection and Classification of Breast Cancer from Mammogram Images Using Adaptive Deep Learning Technique. *Published in IEEE Xplore – research paper garnering 500+ views and 5 citations.*