

# EASHAN JOSHI

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## EDUCATION

**Master of Science (MS), Data Science (Specialization: Generative AI) - 3.74/4.00**

Rochester Institute of Technology

Aug. 2022 - Dec. 2024

Rochester, NY

**Bachelor of Engineering (BE), Computer Engineering**

University of Pune

Aug. 2016 - Jun. 2020

Pune, India

## WORK EXPERIENCE

**Research Assistant - Dynamic Prompt Engineering | Python, ML, LLMs**

Dept. of Software Engineering, RIT

Aug. 2023 - Present

Rochester, NY

- Developed an analysis engine to probe DevGPT dataset, uncovering **1,957,830** ChatGPT mentions across GitHub issues
- Identified **3,050,232** ChatGPT mentions in commits, & **25,601** in discussions, utilizing **GPU-accelerated tools**
- Conducted sentiment analysis on GitHub issues, achieving an average **sentiment score of 0.11**
- Engineered an interactive debugging system using **OpenAI API**, generating multi-turn queries for bug localization

**Software Engineer | .NET, C#, JavaScript, SQL**

Yardi Software India Pvt. Ltd.

Sept. 2020 - Sept. 2021

Pune, India

- Developed **30+ back-end**, & **50+ front-end** components in Trust Accounting module using .NET & SQL
- Optimized SQL (OLTP & OLAP) queries, achieving a **10% transparency boost** client data visualization & retrieval
- Designed data pipelines & scalable solutions, reducing **financial data error rate** by **15%** in tax & insurance management
- Collaborated with Team Lead to engineer **2 Custom Programming Reports**, enhancing report generation capabilities
- Delivered on-call production support, resolving over **90 support tickets** to ensure system performance & reliability

## PROJECTS

**Advanced Financial Analysis & Risk Assessment of Listed Companies (Industry Project) | Python, ML [Link](#)**

Feb. 2024

- Executed data cleansing on a financial screening dataset with **80 indicators** supplied by FinSharpe (Investment Advisor)
- Performed quantitative risk analysis on the dataset, identifying **362 high-risk stocks**
- Incorporated 'FinSharpe Overall Score' for market cap segmentation, isolating **240 firms**
- Administered in-depth performance evaluations that helped secure a **\$120,000 investment** for FinSharpe

**Duplicated Bug Report Detection using Siamese Convolutional Neural Network | TensorFlow, NLP [Link](#)**

May 2023

- Harnessed TF-IDF & Cosine Similarity to process Eclipse Bug Report Dataset, achieving a categorization accuracy of **93%**
- Employed BM25 on similar and dissimilar datasets, achieving **recall rates** up to **2.24%** and **6.25%** respectively
- Implemented Shapiro-Wilk test on BM25 recall rates across datasets, revealing **p-value of 0.17** indicating normality
- Evaluated a Siamese CNN model on textually similar & dissimilar datasets, obtaining **AUC scores** of **0.54** & **0.58**

**Multiclass Image Classification using Deep Convolutional Neural Network | Python, TensorFlow [Link](#)**

Nov. 2022

- Created a DCNN by modifying VGG16 architecture achieving **80% accuracy** on Tiny ImageNet dataset

## TECHNICAL SKILLS

**Programming Languages:** Python, JAVA, VB.NET, C#, C++

**Databases & Management:** SQL, MySQL, PL/SQL, MongoDB, OLTP, OLAP, ETL, Data Pipelines

**Developer Tools & Frameworks:** OpenAI API, AWS Services, Linux, Git, Apache Spark, .NET, VS Code, Visual Studio, SAS, Pentaho, PyCharm, IntelliJ, Eclipse

**Libraries:** Scikit-learn, Numpy, Pandas, Matplotlib, Keras, TensorFlow, NLP, PyTorch, rank\_bm25

**Web Technologies:** HTML, XML, CSS, PHP, JavaScript, JSON

## ADDITIONAL

**Leadership:** Recreation & Fitness Supervisor - Supervised a team of 10 Fitness Attendants at RIT Fitness Center

**Certifications:** [AWS Certified Cloud Practitioner](#) (Amazon Web Services), [Google Project Management](#) (Google)