

Harish Ravi

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EDUCATION

VIRGINIA TECH

NCR Campus

MS IN COMPUTER SCIENCE

Aug 2021 - Jun 2023

ANNA UNIVERSITY

SSN College of Engg.

B.E IN COMPUTER SCIENCE

Graduated May 2019

LINKS

Github: / Harishgeth

LinkedIn: / harish-ravi-4052ba123

SKILLS

C • C++ • GoLang
• JavaScript • SQL • Java
• AWS • Gitlab CI • Python
• Redis • Machine Learning
• Pytorch • Front-end

Areas of interest

- Machine Learning
- Distributed Systems

Courses Taken

- Data Analytics
- Advanced Machine Learning
- Deep Learning

PROJECTS

SOURCE CODE GENERATION IN EXTREME PROGRAMMING

Built a code generation utility for generating source code from unit test cases using transformers using Pytorch, Huggingface

MONOCULAR DEPTH ESTIMATION

Performed monocular depth estimation using Vision induced Transformers and CNN's leveraging transfer learning

SPATIO TEMPORAL ANALYSIS OF NYC TAXIS AND BUSES

Performed a spatio-temporal analysis of NYC public transit buses and taxis to understand the correlation of taxi booking patterns with bus delays

PROFESSIONAL EXPERIENCE

VERITAS LLC | SDE INTERN

Jun 2022 - August 2022

- **Tech stack:** Python, Pandas, Vue.js, Flask
- Worked with the Enterprise Vault Cloud team to ensure digital compliance for enterprise customers on archived data.
- Performed PoCs for visualizing data for use in financial fraud investigation using employee communication data.
- Generated Collaboration Network visualizations that provided dynamic visualizations of the underlying communication context with word clouds generated from keyword extraction techniques like TF-IDF, Rake, Yake

THOUGHTWORKS INDIA | APPLICATION DEVELOPER

Jan 2021 - July 2021

- **Tech Stack :** Go, Reactjs, Java Spring boot
- Performed feasibility analysis for using an E-COTS (E-Commerce Off-the-Shelf) Tool during the ideation phase of building a Minimum Viable Product for a medical devices marketplace.
- Developed APIs and web-app frontends for an online banking application.

LYNKS LOGISTICS LIMITED | SDE

May 2019 - Jan 2021

- **Tech Stack :** Go, .NET, Redis, PostgreSQL, Mssql, AWS
- Implemented deployment techniques with CI/CD on legacy components, ensuring a **fully automated delivery** .
- Developed central data APIs that served consolidated and aggregated data from various micro services, which reduced the average time to fetch from approximately **3 seconds to 30 ms** .
- Designed, developed, and maintained critical features on the trip assignment process, which improved efficiency and reduced churn rate. These features resulted in an approximate **efficiency increase of 10 % for trip assignment and a 20 % decrease** in trip rejections.
- Lead the development of a set of tools used by distributors for auditing and tracking goods, which provided a **boost in revenue of 20 million USD per annum** .

RESEARCH

TAMIL OPTICAL CHARACTER RECOGNITION | ICMV 2018, Munich, Germany

- Created a tool to digitize Tamil Sangham literature documents.
- Segmented documents using morphological transformations and predicted the characters using a hierarchical CNN, with a reconstruction accuracy of approximately 99.4 %

PATIENT MATCHING | ICTAI 2019, Portland, USA

- Developed a solution for the record linkage problem on medical patient data.
- Performed vectorization using fastText and dimensionality reduction using Generative Adversarial Networks.
- On performing record linkage with Locality Sensitive Hashing, an accuracy of 81.15 % was obtained, which is comparable to the state-of-the-art deduplication tools.