

Sriharsha Hatwar

(Available to Join from May 2024 onwards)

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🏠 Website : sriharsha-hatwar.github.io

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EDUCATION

University of Massachusetts Amherst

MS in Computer Science | **Courses:** Reinforcement learning, Advanced NLP, Advanced Machine Learning

Aug. 2022 – May 2024

Amherst, Massachusetts

PES University (Formerly PESIT)

Bachelor of Science in Computer Science | **Honours** : First Class with Distinction

Jul. 2014 – Aug 2018

Bengaluru, Karnataka

PUBLICATION

Author Unknown : Evaluating Performance of Author Extraction Libraries on Global Online News Articles (In Review)

Sriharsha Hatwar, Virginia Partridge, Rahul Bhargava, Fernando Bermejo

ICWSM 2024

Beyond the Imitation Game: Quantifying and extrapolating the capabilities of language models

(Accepted)

Aarohi Srivastava, Abhinav Rastogi, .. , Sriharsha Hatwar, .., Ziyi Wu

TMLR 2023

Lead Artist Identification from Music Videos using Auto-encoders

(Accepted)

Prajwal Chandrashekaraiyah, Pranav kashyap, Sriharsha Hatwar, Srinivasa Murthy

SOMMA 2019

TECHNICAL SKILLS

Programming Languages: Python, Java, Haxe, C++, C, Javascript

Databases & Tech Stack: PostgreSQL, Redis, Flask, Splunk, AWS (EC2, DynamoDB), Spring, Pandas, Docker, dvc

Machine learning tools: PyTorch, HuggingFace, Scikit-learn, PySpark, LLMs

Build / Version control: Git, Perforce, Gradle

EXPERIENCE

Center for Data Science, Umass Amherst

May 2023 – August 2023

Data science Intern

Amherst, Massachusetts

- Developed a DVC pipeline for multilingual author extraction in news articles, achieving ~ 0.7 F1 score with custom NER models for low and high resource languages using ROUGE metric.
- Created an evaluation suite, including edit distance and ROUGE-1,2,L scores for custom transformer language and open-source libraries. Findings are currently under review at AAAI-ICWSM.

Tivo (Part of Xperi)

July 2019 - Aug 2022

Software engineer

Bengaluru, Karnataka

- Redesigned an existing **AWS Lambda Service** to store the recent video provider and implemented a client feature to launch the provider (Ex: HBO, Prime) app directly when the asset (Series/Episode) is selected for streaming.
- Implemented **Retry mechanism** for IP Linear playback for streamers following an **exponential backoff** policy. Built a **Splunk** dashboard for monitoring the devices in the field.
- Redesigned **TvBeacon Service** for in-home device communication and reduced the round trip by 50% between mini and host STB for the latest Series 7 Set-top-boxes impacting 10k+ devices.

Tivo (Part of Xperi)

July 2018 - Jul 2019

Associate Software engineer

Bengaluru, Karnataka

- Exposed to **haxe cross-compiler toolkit**, which allowed to target both Linux STBs and modern android-based apps.
- Implemented a new design of deeplinking of assets in streamers to third-party apps using **Android Intent API** and eliminated the metadata team's effort of manually creating deeplinking strings.
- Redesigned **UI Progress bar** widget across screens and improved the UI experience of the played asset to the end users.

Veveo (Part of Tivo)

Jan 2018 - Jun 2018

Software engineering Intern

Bengaluru, Karnataka

- Worked on extracting metadata information from category section in wiki-articles, enhanced metadata on media entities.
- Implemented a rule-based engine to mine information. Later, parallelized the creation of the **Knowledge Graph(KG)** by utilizing **MapReduce** pipelines
- Enhanced the Knowledge Graph(KG) by utilizing **smart tags** for each entity by exploiting the parent-child relationship between category nodes, created the complete KG by following the **two-pass mechanism**

HONOURS AND ACHIEVEMENTS

- One of the 13 recipients in a pool of 120+ graduate students who got the [\[DS4CG Fellowship\]](#).
- Xperi Hackathon 2020 - Popular choice award - Team **Xvision** (Prize money 25,000 INR)
- Attained **bronze medal** for **top 8%** private leader board in the Kaggle competition - **Tweet Sentiment Extraction** - [\[LINK\]](#)

PROJECTS

Clothing Fashion Extraction from Video Songs - This project involved extraction of clothing apparels from music videos, the initial part of the project was accepted in a journal publication.

FLYLY - A Web based chat application - Implemented a chat-based application similar to slack. Utilized **socket.io** for the real-time push of messages from **Node.JS** backend. Used a **MySQL** DB for storing and retrieving chat history.