Sriharsha Hatwar (he/him)

📍 *Amherst, Massachusetts*   📱 *+1 (413) 399-8274*

✉ shatwar@umass.edu   🏠 Personal Website : sriharsha-hatwar.github.io   🎮 Sriharsha-hatwar

Education

University of Massachusetts, Amherst   Sep 2022 - May 2024 (Expected)
Master of Science, Computer Science   *Amherst, Massachusetts*

PES University (Formerly PESIT)   July 2014 - Aug 2018
B.Tech in Computer Science (Specialization in Data science)   *Bangalore, India*
Honors: First Class with Distinction

Publications

- Prajwal Chandrashekaraiah, Pranav kashyap, **Sriharsha Hatwar**, Srinivasa Murthy.
  Lead Artist Identification from Music Videos using Auto-encoders [LINK]
  Symposium on Machine Learning and Metaheuristics Algorithms, and Applications (SoMMA 2019)

News (selected)

- (*Aug, 2021*) My task on **'Figure of speech detection'** has been accepted at GoogleAI's **Big Bench** [LINK].
- (*Dec, 2020*) Xperi Hackathon 2020 - Popular choice award - Team **Xvision** (Prize money 25,000 INR)
- (*Jun, 2020*) Attained **bronze medal** for **top 8%** private leader board in the Kaggle competition - **Tweet Sentiment Extraction** - (176th /2227 teams) [KAGGLE-PROFILE-LINK]

Skills

- **Programming Languages:** Python, Java, Haxe, C++, C, Javascript
- **Databases & Tech Stack:** PostgreSql, Redis, PyTorch, HuggingFace, Scikit-learn, PySpark, Flask, Splunk, AWS, Spring, Pandas, Docker
- **Build / Version control:** Git, Perforce, Gradle

Professional experience

Tivo (Part of Xperi)
Software Engineer   *July 2019 - Aug 2022*

- Worked on UI Enhancement, features, and bug fixes in the core UI/UX team that drives features for the latest Tivo products. [Linux STBs and recently launched streamers]
- Redesigned an existing **AWS Lambda Service** to store the recent video provider and implemented a client feature to launch the provider (HBO/Prime etc.) 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.

Associate Software Engineer   *July 2018 - July 2019*

- 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 (Subsidiary of Tivo)
Software Engineering Intern   *Jan 2018 - Jun 2018*

- Worked on extracting metadata information from category section in wiki articles and enhanced metadata on media entities by around **9%** overall.
- 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**.

Projects (selected)

- **Clothing Fashion Extraction from Video Songs** - This project involved extraction of clothing apparels from music videos, the initial part of the projected was accepted in a journal publication.
- **Tweet Sentiment extraction** - This Project extracting the **sentiment-causing span** of text from a tweet. Experimented with several **transformers** and **RNN architectures** with different pretraining methodologies, Added **1-D conv layer** on top of transformers.
- **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.