

# Harsha Vardhan G

📞 +91 9902488769 | ✉ hv2595@gmail.com | 🌐 github.com/harsha0609 | 🔗 linkedin.com/in/harsha-varadhan-946b6515a

## Personal Profile

A Machine learning enthusiast and a vivid open source contributor with 2+ years of experience specializing in machine learning, application development, algorithms, and full-stack web development. Well-versed and seasoned developer in Django Rest Framework, ReactJS, and Natural Language Processing. Aspire to become a socially responsible software architect.

## Education

### National Institute Of Technology Karnataka

BTech in Information Technology

- CGPA - 8.48/10

Surathkal, India

July 2016 - June 2020

### Narayana PU College

High School - Class XII PUC

- Percentage - 98 ( 588/600 )
- Specialised in Physics, Chemistry, and Maths with Computer Science

Bangalore, India

July 2014 - May 2016

## Work Experience

### Stratforge

Software Engineer

- Developed Multiple ML models for classification, deriving intelligence, and scoring.
- Full stack Development, with designing and architecting the application. Multiple releases with agile development process
- Currently leading the product development as the technical lead with hands-on deployment routines, requirement gathering, effort allocation, and code review.
- **Technical Skills:** Python with Tensorflow, Django Rest Framework, ReactJS, Pandas, Redux, Docker, AWS
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills, Leadership

Chennai, India

Sept 2020 - Present

### Startforge

Machine Learning Intern

- Build a model with the team for generic resume sorting and intelligent clustering of CV's

Chennai, India

May 2019 - July 2019

### OGS PayLab

Software Intern

- Got exposure to day to day software development ethics with learning multiple technologies

Chennai, India

May 2018 - July 2018

## Skills

<b>Programming</b>	Python (Pandas, Tensorflow, Keras, NumPy, Scikit-learn. etc.), JavaScript, C/C++, HTML/CSS, SQL, Java
<b>Web Development</b>	ReactJs, Django Rest Framework, Redux-Toolkit, NodeJS, NextJS
<b>Miscellaneous</b>	Docker, AWS, Linux, Shell (Bash/Zsh), Microsoft Office, Firebase, Git.
<b>Soft Skills</b>	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation, Leadership

## Projects

### RedFlare and Servedly

Stratforge

Jun 2020 - Apr 2021

- Developed an application that processes customer calls and does SSQA analysis, also processes live customer calls and gives various statistical insights and in-depth analysis.
- **Technical Skills:** Django, ReactJS, Redux, TensorFlow, Pandas, AWS
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

### Intelligent Routing And Caching for Named Data Networks (Research Project)

NITK

August 2019 - May 2020

- Worked on generic NDN routing and caching and studied the advantages of using caching policies for routing, implemented our own policies for both, and this implemented using reinforcement learning.
- **Technical Skills:** C++, Reinforcement Learning
- **Soft Skills:** Presentation skills, Teamwork, Logical Thinking, Thesis Writing, Literature Survey

## Machine Learning

NITK / Personal

- Neural Style Transfer - To detect if given two paintings belong to the same artist using CNNs.
- Twitter Suicidal Analysis to Predict the chance of Suicide based on the tweet.
- Predictive analysis for the prediction of the best group of physicians for Patient Diagnosis.

## Medical Visual Q/A

NITK

Jan 2019 - May 2019

- Developed model using LSTM to predict answer based on medical image and respective question. This was done as a part of imageCLEF 2019.
- **Technical Skills:** Python, Tensorflow with Keras, Pandas, OpenCV

## Web Development

Personal

- Equalizer - Live translation of video calls with multiple languages support.
- Multiple ReactJs Clone Applications such as Google Search, Instagram, Medium.
- Developed a custom Design System, worked on designing and implementing.

## Misc

Personal

- Distributed Computing - Parallel computation of skyline queries using map-reduce.
- Computer Vision - Estimation of Optimal Speedbreaker Placement and Lane Expansion.
- Socket Programming - A Banking management system(with GUI) implemented in Java communicates between systems through socket programming in real-time.

## Predictive analysis for Debt Collection

Stratforge

- To predict the probability of loan repayment and other predictive analytics for collection of debt and credit.
- This was implemented as a part of OceanPro Cohert-II.

## Achievements

---

- Shortlisted as a finalist in a national level hackathon(MAKE-IT REAL) conducted by SIEMENS. (In the top 20 out of 600 teams).
- Participated and successfully completed ImageClef 2019 Medical VQA Task, an international competition.
- Ranked in Top 0.1% amongst 1,200,000 in JEE MAIN 2016.
- Pinnacle Performer of the Year 2022, Stratforge.
- Cleared the International Standard of Mental Arithematic Proficiency Examination.

## Interests

---

<b>Linux</b>	Since 2016, as a developer, I have been in love with Linux. I recently switched to macOS, which feels like a premium to Linux.
<b>Technical Writing</b>	I love writing technical blogs, some of them are on my Medium and I seldom write for my company newsletter
<b>Art</b>	I have always enjoyed drawing since I was a child. Recently, I have shifted to digital art mostly on Deviantart.
<b>Video Games</b>	I always had the gaming gene. I mostly play on my phone and occasionally on my switch.
<b>Swimming</b>	I started swimming when I was 12. Going through submerged things while holding my breath was the most exciting part.
<b>Music</b>	I enjoy almost all types of music may it be screamo, punk rock, bluegrass, pop, psychedelic, rap, and japanese.

## Languages

---

<b>English</b>	Professional proficiency ( IELTS - Band 8.0 OverAll, (Minimum of 7.0 in Each Band )
<b>Hindi</b>	Native proficiency
<b>Tamil</b>	Native proficiency
<b>Kannada</b>	Native proficiency