

# SriHarsha Ponakala

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## Personal Profile

A University of North Texas graduate student who is enrolled in the interdisciplinary studies in Advanced Data Analytics program. Dedicated to software engineering, having two or more years of expertise and specializing in full-stack web development, algorithms, and machine learning. Searching mainly for Machine Learning, Data Engineer, and Python Development positions.

## Education

### University of North Texas

Denton, US

MS in Interdisciplinary Studies / Advanced Data Analytics

Sept 2022 - Current

- Worked as a Research Assistant
- **Courses:** Data Analytics, Programming with R, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

### Qis College of Engineering

Ongole, India

BTech in Electrical Engineering

May 2018 - May 2021

- Graduated with Distinction
- Selected for Industrial Visit among the top of the class

### Rise Krishna Sai Institute of Technology

Ongole, India

Diploma

Apr 2015 - Apr 2018

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Electrical Engineering

## Work Experience

### AA Tech LLC

HYderabad, India

Jr. Software Developer

Oct 2021 - Aug 2022

- Designed and developed web interfaces and business logic using Jakarta Struts Framework
- (MVC architecture), JSP, Servlets, Java Beans, JDBC, AJAX, Java Script, HTML, DHTML and XML Technologies
- Implemented the MVC pattern by using Struts with help of controller servlet, Action mappings, actions and global forwards are defined in struts-consign.xml file and method call implementations are developed in Action.
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, Ubuntu Linux, Linux tools, Apt, Scripting, Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

## Projects

### The Relation between GDP and IMR

Ongole, India

Qis College of Engineering

Feb 2020 - Apr 2020

- Analysing data from 1960 to 2019 and discover patterns in the data that show trends between Gross domestic product per capita, Infant Mortality rate, Literacy Rate, and Industrial Development.
- Study cross-sectional, longitudinal, and among various countries to find variations in trends and get the historical data to back up the change in the trend of our data.
- Specific case studies were traced back to trends seen in the India and how they affected the GDP and IMR.
- **Technical Skills:** Tableau, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

### Next Generation Customer Retention Analysis For E-commerce

Denton, India

University of Nort Texas

Sep 2023 - Oct 2023

- To optimize company processes, contemporary digital infrastructure is being transported around the world. The online market is customer-centered, competitive, and moves quickly. This motivated to begin this project that would increase customer retention through this continuous development. While retaining customers has always been crucial, the high usage of data and customer touchpoints available in the digital age presents an unrivaled chance to personalize and enhance customer experiences.
- The significance of this project, in comparison to others, lies in its comprehensive approach to next-generation customer retention. We're not just looking at standard practices but diving deep into leveraging advanced analytics, machine learning, and a wealth of data to create personalized and effective retention analysis.
- **Technical Skills:** Python with Pandas, matplotlib, Seaborn.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

## Skills

<b>Programming</b>	Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), R(ggplot2), PHP, C/C++, HTML/CSS, JavaScript, SQL, Azure Cloud, AWS S3.
<b>Miscellaneous</b>	Linux, Shell (Bash/Zsh), $\text{\LaTeX}$ (Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.
<b>Soft Skills</b>	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Achievements

2022	<b>324/340</b> , Graduate Record Examinations (GRE)	India
2018	<b>Elite</b> , DBMS NPTEL Exam	India
2023	<b>IT Tech Support Certification</b> , Google	Coursera
2023	<b>Digital E-commerce Certification</b> , Google	Coursera
2023	<b>Data Analytics Certificaion</b> , Google	Coursera
2023	<b>AWS S3</b> , Project Network	Coursera

## Publications

### JOURNAL ARTICLES

Haleu – Triso Particle Fuel Based Nuclear Reactor for Celestial Body Exploration  
sriharsha p Khan, Ümit C. Büyüksahin, Felix Freitag  
*Journal of Computer and System Sciences* 81.8 (Sept. 2022) pp. 1479–1495. 2022

## Interests

<b>Cooking</b>	I love cooking. I am an expert in most Indian-style cooking, enjoy baking and making my own pizza.
<b>Linux</b>	Since 2017, I have been in love with Linux. I recently switched to Mac OS, which feels like a premium of Linux.
<b>Technical Writing</b>	I write descriptive blogs about Linux some of them are on my GitHub and Medium.
<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.

## Languages

<b>English</b>	Professional proficiency
<b>Telugu</b>	Native proficiency