

# VENKAT KISHOR PADMANABAN

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Master of Science in Computer Science*

*Expected May 2024*

**Cumulative GPA:** 3.69/4.00

**Relevant Coursework:** Programming for the Web, Database Systems, Computer Networks, Social Media Data Science Pipeline, Design and Analysis of Algorithms, Operating Systems, Computer Architecture and Organization

**Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India**

*Bachelor of Technology in Electronics and Communication Engineering*

*September 2020*

**Cumulative GPA:** 3.65/4.00

## TECHNICAL SKILLS

**Languages:** Javascript, Python-NumPy, Pandas, ScikitLearn, Keras, Java, HTML/CSS, MySQL, PLSQL, MongoDB

**Software:** Visual Studio Code, Visual Studio, Jupyter Notebook, Pycharm, Oracle PLSQL, MySQL Workbench, Microsoft Office Suite

**Frameworks:** Angular, React, Express, .Net, Spring, Flask

**Additional:** Factory Job Scheduler, Machine Learning – Gradient Boost, Random Forest, KNN, Deep Learning – CNN, Web Crawler – 4Chan API

**Certifications:** Microsoft Technical Associate – Networking Fundamentals

## PROFESSIONAL EXPERIENCE

**Binghamton University, Computer Networks Teaching Assistant** | Binghamton, NY *August 2023 – December 2023*

- Assisted in building the coursework, curriculum and the subject material for the course
- Coordinated in teaching, grading, conducting project demos and invigilating examinations
- Supported a class of 40 students, comprising of both undergraduate and graduate students

**Tata Consultancy Services, Full Stack Developer** | Hyderabad, India *January 2021 – December 2022*

- Designed and maintained a billing application for a US-based healthcare client, having devised nightly run jobs and PLSQL procedures
- Utilized Angular for UI development, .Net Core for middleware APIs and PLSQL for backend development
- Fabricated and handed over 3 frameworks, bringing down the development time by 2 weeks for each CR

## PROJECT EXPERIENCE

**Skin Cancer Detection using CNN – Developer** | Individual Project | Binghamton, NY *February 2024 - Ongoing*

- Designed a Skin Cancer Detection model employing CNN
- Data collection is in process; sources include WHO, Google, Amazon and Kaggle
- ADAM optimizer is being employed to enhance the efficiency

**Autocorrect using KNN – Developer** | Individual Project | Binghamton, NY *January 2024 – February 2024*

- Fabricated an autocorrect application that recommends three closest words to the entered word
- Employed Python scripting and KNN algorithm to accomplish the task
- Evidently observed the efficiency increase upon using KNN algorithm against TextDistance API

**Reddit Data Sentiment Analysis – Developer, Lead** | Team Project | Binghamton, NY *November 2023 – December 2023*

- Developed a scheduled data collection system to collect post related information from Reddit platform related to the India-Canada feud, performed data analysis and displayed the results in a web-based UI
- Utilized Angular to build the UI and Flask to construct the REST API; collected real-time data using Python scripts and Reddit developer API; scheduled the system using Crontab; performed hate-speech analysis using ModerateHateSpeech API
- Successfully executed data collection and analysis by generating over 350 word-clouds, 15 sentiment analysis graphs and a data collection trend graph
- Vividly portrayed the results in the UI using a word-cloud evolution animation and the graphs

## ACHIEVEMENTS AND AWARDS

- Cleared Digital Programme in Tata Consultancy Services by acing digital coding exam and interview in July 2021
- Achieved Star of the Month award while working with Tata Consultancy Services in March 2022
- Presented with employee of the quarter by client while working with Tata Consultancy Services in January 2022