SANJEETH NAGAPPA CHAKRASALI

Worcester, MA, 01609| [schakrasali@wpi.edu](mailto:schakrasali@wpi.edu) | (401) 417-0321 | [LinkedIn](https://www.linkedin.com/in/sanjeethnc/)

# EDUCATION

## Master of Science in Data Science, Worcester Polytechnic Institute, GPA 4.00/4.00 Aug 2023-Aug 2025

Related Courses: Machine Learning, Statistics for Data Science, Introduction to Algorithm: Design and Analysis,

Big Data Analytics, Big Data Management, Natural Language Processing (NLP)

## Visvesvaraya Technological University Bachelor of Engineering in Electrical and Electronics Engineering Jun 2016-Jul 2020

# TECHNICAL SKILLS

**Machine Learning**: Keras, TensorFlow, PyTorch, OpenCV, PIL, Scikit-learn, Matplotlib, Seaborn, Flask, Pandas, Numpy

**Programming languages**: Python, R, HTML, CSS, C, Java, JavaScript, MySQL, MongoDB

**Software**: Atlassian Jira, Confluence, Kibana, ElasticSearch, and Restful API, PowerBi, Tableau, Django,

AWS, Docker, Git/Github, Amazon Redshift, Advanced excel (Pivot tables, V-lookup), data visualization

**Big Data**: Hadoop (MapReduce), Spark, Apache Pig, Hive/HBase

# PROFESSIONAL EXPERIENCE

## Data Scientist– Happay Apr 2022 – Jul 2023

* Deployed Random Forest & Logistic Regression models, reducing fraudulent transaction by 15%.
* Improved customer service efficiency by 40% through A/B testing, feature enhancements, and AI chatbot integration.
* Increased ML model accuracy by 4% with feature engineering and automated customer care via 20+ Python scripts.
* Constructed a predictive model for call volume forecasting with 80% accuracy, facilitating staffing and business planning.
* Boosted API performance by 12% and provided product insights with SQL-driven KPI analysis, aiding decision-making.

## Data Analyst Consultant– Hewlett Packard Enterprise Nov 2020– Apr 2022

* Achieved 99.99% uptime, peak customer satisfaction via data monitoring, predictive analytics, reduced outages.
* Synthesized BI reports from Service Now, HPE One View, Excel, PowerPoint.
* Automated ticket management on ServiceNow for faulty servers using RestAPI and Python
* Led cross-functional teams in data analysis, product optimization driving $5M revenue increase in Q4 2021, earned Quarterly Performance Award.

## Software Engineer Intern – Hewlett Packard Enterprise Jan 2020 –Jul 2020

* Mastered Data Center infrastructure and scripting, contributing to a 10% reduction in system downtime and a 15% improvement in operational efficiency during internship.
* Spearheaded 'Storage Automation with VMware' project, applying data analytics to streamline storage processes, achieving a 25% reduction in data retrieval times and enhancing content management efficiency.

# PROJECTS EXPERIENCE

## BlogBot AI ([Link](https://github.com/SanjeethNC/BlogBot-AI))

* Implemented dynamic Prompt Templates and integrated the LLaMA 2 model via CTransformers to generate high-quality, contextually relevant blog content for various writing styles.
* Developed a user-friendly Streamlit app for inputting blog topics, selecting styles, and defining word counts, enhancing user experience with organized input fields.
* Configured LLaMA 2 model parameters for optimal content generation and secured access through Hugging Face authentication. Tech components: Streamlit, CTransformers, LLaMA 2, Hugging Face.

## Cross-Language Data Retrieval ([Link](https://github.com/SanjeethNC/Cross-Lingual-Information-Retrieval))

* Developed a cross-lingual information retrieval tool using Bidirectional LSTM (BiLSTM) and nearest-neighbor algorithms achieving a 52% increase in leads.
* Utilized Cross-lingual Open-Retrieval for training, with extensive data analysis and feature extraction to ensure model robustness and adaptability.
* Collaborated with software teams and conducted user research with over 5000 users, refining the tool for effective and accurate document retrieval across multiple languages.

## Mood-Based Media Recommendation ([Link](https://github.com/SanjeethNC/Mood-Based-Media-Recommendation))

* Developed a CNN model for facial mood recognition using grayscale images, achieving 63.5% accuracy on validation sets; utilized TensorFlow, Keras, NumPy, and OpenCV.
* Designed a CNN-based model for music genre classification and mood recommendation, achieving 90% accuracy and 88% precision using PCA and LibROSA.
* Integrated facial mood recognition and music genre classification into a comprehensive recommendation system, enhancing performance and user experience. Tools utilized TensorFlow, Keras, NumPy, OpenCV, LibROSA, Scikit-learn.

# LEADERSHIP AND ENVOLVENMENT

* Assisted Off-Campus Event Organization within the WPI Graduate Student Government committee, I successfully orchestrated a variety of events, from student gatherings to outdoor activities, enhancing community engagement and fostering a sense of camaraderie among peers.
* Appointed Secretary of the Interact Club by Rotary, I spearheaded event management, financial oversight, and strategic planning for outings.