

Chethana Thondebhavi Shantha Kumar

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Objective

Passionate and results-driven data scientist with a strong background in Computer Science Engineering and a Master's in Data Science. Skilled in data mining, deep learning, and data analytics, with hands-on experience using Python, Power-BI, and Tableau. Adept at transforming complex data into actionable insights to drive innovation and efficiency. Seeking to contribute my expertise to cutting-edge data-driven solutions.

Education

University of Arizona
Masters in Data Science
Relevant Courses: Data Analysis and Visualization, Data Mining, AI, ML, Neural Networks, NLP, SQL database, Data Warehousing.

Expected graduation date: May 2025

Dayanada Sagar Academy Of Technology and Management
BE in Computer Science Engineering
Relevant Courses: Big Data Analytics, C, Python, DBMS, Web development, NoSQL Databases, Digital Image Processing, Data Structures and Applications, Data Mining and Warehousing.

Graduation date: May 2023

Skills & Certifications

Skills: Power-BI, Tableau, Python, JavaScript, SQL, HTML, CSS, Data Analysis, Machine Learning, Deep Learning, Git, MS Office (Excel, Word, PowerPoint), Power-BI, Tableau

Certifications: Beginner to advanced python programming, AWS-Cloud Foundation, Business Analytics training, Google Data Analytics professional

Experience

Tequed Labs
Software Engineering Intern
• Developed dynamic web applications and streamlined SQL databases to enhance user experience and support scalable operations.
• Demonstrated strong problem-solving skills and the ability to work independently on technical tasks.

Aug. 2022-Sep. 2022

PHP, JavaScript, SQL Server, HTML, CSS, Bootstrap, jQuery

Hearthealth Technologies Private Limited
AI/ML Intern
• Spearheaded the design of an advanced image segmentation model using Fully Convolutional Neural Networks (FCNNs), which significantly enhanced diagnostic accuracy for the OneCardio product.
• Implemented the model effectively, optimizing performance and reliability in real-world diagnostic applications, thereby elevating the overall capabilities of the healthcare technology.
• Managed research protocols and maintained precise data records and, Assisted in organizing and processing data, ensuring accuracy and attention to detail.

Oct. 2022-May. 2023

Python, Deep Learning, Neural Networks

Projects

Segmentation and Refinement of Carotid Artery
Image Prepossessing and Image segmentation using deep learning
• Spearheaded a project developing an advanced U-Net model with dropout layers, achieving a dice coefficient of 87.86% after 300 epochs for enhanced carotid artery segmentation accuracy.
• Optimized performance using two datasets with 1,100 images, increasing the dice score from 72.62% to 80.84
• Published Survey Paper and Research Paper on this project, providing valuable insights to the field of medical image segmentation.

May. 2023

Python

Sentiment Analysis
Analysing Emotional Dynamics of Social Media
• Developed LSTM networks achieving 99.61% training accuracy and 88.2% test accuracy for classifying emotions in tweets.
• Implemented dropout layers to enhance real-time emotion detection, mitigating overfitting and improving model reliability and, achieved an average loss of 0.0097 and validation accuracy of 89.25%, demonstrating robust emotion classification.

May. 2024

Python

Predicting abnormal climate in Arizona

Nov. 2023

Evaluation of unusual climate situations in Arizona

Python, HTML

- Directed the development and deployment of LSTM and feedforward neural networks, achieving a mean absolute error of 0.5263 and precise temperature predictions, enhancing model accuracy by 12% through meticulous hyper-parameter tuning.
- Collaborated with a team to preprocess data and validate models, utilizing K-means clustering to identify three distinct weather patterns. Leveraged historical weather data from 1970 to 2023, ensuring precise climate predictions and publishing comprehensive findings.

Alien Encounters

Oct. 2023

Visualization of UFO Sightings around the world

R, HTML, CSS, JavaScript

- Managed a comprehensive data analysis project on UFO sightings, employing ggplot for interactive visualizations, which substantially increased public engagement and provided new insights into sighting trends.
- Created interactive and informative plots using ggplot to show the number of UFO sightings on the world map and how the trends vary over the years.

World happiness report

Dec. 2023

A journey through world happiness:)

R, HTML, CSS, JavaScript

- Created an [interactive Shiny App](#) to distill the complex data of the World Happiness Report into user-friendly visuals, significantly boosting user interaction and insight into global happiness trends.

NLP Statistics and web scrapping

Python, HTML, CSS, JavaScript Dec. 2023

- Developed a sophisticated web application for NLP statistics comparison, enhancing data depth and accuracy, which greatly improved content strategies for health information dissemination.

Suicide analysis dashboard

Power-BI, MS Excel, Python April. 2023

- Created comprehensive visualizations using Power-BI to uncover critical insights into suicide data trends.
- Performed Data cleaning and validation on Microsoft Excel and handled outliers using pandas and matplotlib on Python and created a Dashboard using Power-BI for Suicides in India dataset.