Biswas Trinadh Vempati

Microsoft Certified Azure Data Scientist

The world is one big data problem, and I am a Data Science, Machine Learning, & Deep Learning enthusiast who tries to solve those problems using my skills. My goal is to turn Data into Information and Information into Insight.



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**EDUCATION**

**Georgia State University – Full Scholarship along with GTA & GRA** Atlanta, GA

Master of Science in Computer Science 01/2021 – Present

**K L University** Guntur, India-AP

Bachelor of Technology in Computer Science 06/2016 - 05/2020

**Acharya Nagarjuna University** Guntur, India-AP

Bachelor of Business Administration 06/2017 - 06/2020

**EXperience**

**Graduate Research Assistant** Atlanta, GA

Department of Finance, J.Mack Robinson College of Business 05/2021 – Present

* Our research includes collecting earnings call transcript information of every publicly listed organization in the United States and performed textual analysis to recognize their effect on the stock cost.

**Graduate Teaching Assistant** Atlanta, GA

Collage of Arts & Sciences, Georgia State University 01/2021 – 05/2021

* Designed and Evaluated Machine Learning projects using Python Language for graduate and undergraduate students.
* Hosted weekly recitations and office hours to offer support to students.

**Data Analyst - Intern** Vizag, India-AP

Vizag Steel Plant 05/2019 – 12/2019

* Developed Production Data Management System to collect, store, and analyzed production material data.
* I have developed a graphical interface to visualize production data using bar graphs and pie charts.

**Project Intern** Hyderabad, India-TG

Erusen Softwate Private Limited 05/2019 – 12/2019

* Learned basics of Android Studio and developed a music app prototype.

**Projects**

[**Agrow Suggest - An AI-Powered Web Application**](http://agrowsuggest.azurewebsites.net/)**.**

Python, Machine Learning, Deep Learning, TensorFlow, Keras, Flask, Scikit-learn, Pandas, NumPy.

Web Application equipped with Decision Tree, XGBoost, and CNN algorithms to recommend varieties of harvests to be cultivated, including compost to be utilized alongside crop disease prediction.

[**Diabetes Predictor**](http://diabetespredictionrf.azurewebsites.net/)

Python, Scikit-learn, Pandas, NumPy, Flask.

Diabetes Predictor using the Random Forest Algorithm with Feature Selection techniques, which is better in terms of accuracy and number of features used than other machine learning models.

**Diabetic Retinopathy Detection Using Convolutional Neural Networks.**

Python, Machine Learning, Deep Learning, TensorFlow, Keras, Flask, Scikit-learn, Pandas, NumPy.

This project aims to build a prediction model for the DR in type 2 diabetes mellitus using various pre-trained Convolutional Neural networks.

[**Production Data Management System.**](https://productiondatamanagementsystem.herokuapp.com/)

HTML, CSS, JavaScript, PHP, MySQL, AMCHARTS, HIGHCHARTS.

An application that maintains the production data and provides the graphical representation that helps analyze the patterns. Users can also access the data based on the required time.

**TechNical sKills**

**Tools:** Python, C, R, PHP, MySQL, PostgreSQL, Microsoft Azure, Docker.

**Packages:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch.

**Statistical Concepts:** Descriptive & Inference Statistics, Probability Models, Hypothesis Testing, Variance Analysis.

**Machine & Deep Learning:** Regression, Clustering, Decision Tree, Regularization, Dimensionality Reduction, ANN Algorithms

**Key sKills**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Data Analysis | * Data Visualization | | * Data Mining | | * Mathematics | | * Statistics | * Programming | |
| * Quantitative Analysis | | * Predictive Analysis | | * Web Scraping | | * Textual Analysis | | | * Debugging | |

**PUblications**

[Image Similarity Detection Using Scale Invariant Feature Transformation](https://link.springer.com/chapter/10.1007/978-981-16-2126-0_45)

[A Hybrid Approach for Secure Image Distribution and Reconstruction using Efficient POB Number System](http://sersc.org/journals/index.php/IJAST/article/view/13480/6881)