



# 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

<b>Georgia State University – Full Scholarship along with GTA &amp; GRA</b> Master of Science in Computer Science	Atlanta, GA 01/2021 – Present
<b>K L University</b> Bachelor of Technology in Computer Science	Guntur, India-AP 06/2016 - 05/2020
<b>Acharya Nagarjuna University</b> Bachelor of Business Administration	Guntur, India-AP 06/2017 - 06/2020

## EXPERIENCE

<b>Graduate Research Assistant</b> Department of Finance, J.Mack Robinson College of Business	Atlanta, GA 05/2021 – Present
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>Graduate Teaching Assistant</b> Collage of Arts & Sciences, Georgia State University	Atlanta, GA 01/2021 – 05/2021
<ul style="list-style-type: none"><li>Designed and Evaluated Machine Learning projects using Python Language for graduate and undergraduate students.</li><li>Hosted weekly recitations and office hours to offer support to students.</li></ul>	
<b>Data Analyst - Intern</b> Vizag Steel Plant	Vizag, India-AP 05/2019 – 12/2019
<ul style="list-style-type: none"><li>Developed Production Data Management System to collect, store, and analyzed production material data.</li><li>I have developed a graphical interface to visualize production data using bar graphs and pie charts.</li></ul>	
<b>Project Intern</b> Erusen Softwate Private Limited	Hyderabad, India-TG 05/2019 – 12/2019
<ul style="list-style-type: none"><li>Learned basics of Android Studio and developed a music app prototype.</li></ul>	

## PROJECTS

### Agrow Suggest - An AI-Powered Web Application.

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

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.

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

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

## PUBLICATIONS

Image Similarity Detection Using Scale Invariant Feature Transformation

A Hybrid Approach for Secure Image Distribution and Reconstruction using Efficient POB Number System