# PROFILE

UTHEJA BOMMINENI

Oklahoma City, OK 73013 | [uthejareddy2@gmail.com](mailto:uthejareddy2@gmail.com) | 572-208-3562 | [LinkedIn](https://www.linkedin.com/in/uthejareddy/) | [GitHub](https://github.com/utheja2)

Data Science graduate student with hands-on experience in machine learning, data analytics, and AI model development. Proficient in Python, machine learning and deep learning frameworks with a strong foundation in data visualization, data analysis and cloud services. Passionate about driving innovation through scalable solutions and applied research.

# TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, C/C++, HTML/CSS | **OS:** Linux, Windows, Mac

**Machine Learning Algorithms:** KNN, Regression, Naive Bayes, Random Forest, SVM, NLP, K-Means **Libraries:** TensorFlow, NumPy, Pytorch, Pandas, Scikit-Learn, Matplotlib **Frameworks:** Spring boot, Hibernate **Database Management:** MySQL, PostgreSQL, MongoDB **| Automation Tool:** Jenkins **| Project Management Tool:** JIRA, Clockify **| Visualization Tool:** PowerBi **| Version Control:** Git **| Testing Tool:** qTest **| Applications:** Eclipse, Anaconda (Jupyter) **| Cloud Storage:** AWS (EC2)

# EXPERIENCE

**Oklahoma Christian University,** Oklahoma, OK| Graduate Teaching Assistant August 2024 - Present

* Master of Science (MS) in Computer Science | **Concentration:** Data Science
* Assisted in teaching and grading Java programming coursework for undergraduate students.
* Provided guidance on object-oriented programming concepts, debugging, and project development.
* Conducted lab sessions, helping students with hands-on coding assignments and enhancing their understanding of core Java principles.

**Amazon**, Hyderabad, India | Machine Learning Engineer July – November 2023

* Developed and deployed machine learning models to address complex business challenges at Amazon.
* Collaborated closely with cross-functional teams to understand requirements and integrate solutions effectively.
* Conducted data preprocessing, feature engineering, model training, and performance monitoring to ensure optimal model accuracy and efficiency.
* Contributed to the development of scalable infrastructure and tools for efficient model deployment and maintenance.
* Stayed updated with the latest research and technologies in machine learning, driving innovation and thought leadership within the organization.

**Swecha Organization,** Hyderabad, India |*Data Science Intern* ***-*** [***GitHub***](https://github.com/utheja2/Smart-Assistant-for-visually-Impaired-using-YOLOv5) March – June 2023

* Worked on a project named “smart Assistance for visually impaired” The main objective of this project is to give blind users the ability to move around in an unfamiliar environment.
* This project detects objects in the web camera frame and frame & alerts the user about its movement by tracking.
* When an object movement is detected a voice alarm is generated for guiding the blind persons around.
* Object detection is achieved by YOLO object detection model. This uses deep neural networks to learn and detect objects.

# ACADEMIC PROJECTS / PERSONAL PROJECTS

## **Automated Image Caption Generator *-*** [***GitHub***](https://github.com/utheja2/image-caption-generator) **January 2021- May 2021**

* The primary goal of this project is to generate accurate captions for various images without depending on the clarity of the image.
* This model will generate precise captions and will reduce the error rate.
* This model will be able to generate captions even though the image is unclear.
* It uses CNN and LSTM for generation of captions.

**Weather Detector Web Application  *-*** [***GitHub***](https://github.com/utheja2/Weather-App) **August 2020 – October 2020**

* Built a weather detector app where the user can get the current weather conditions in any city which the user wants.
* The user can retrieve the city’s code, its coordinates, its temperature and pressure in that city.
* Technologies used are Python and Django.

# EDUCATION

**Oklahoma Christian University** Oklahoma, OK

Master of Science (MS) in Computer Science | **Concentration:** Data Science – GPA 4.0-/4.0 Exp April 2025

## **JNTUH, Hyderabad, India** August 2019 – April 2023

Bachelor of Technology in Computer Science & Engineering – GPA 7.56/10

# PUBLICATIONS

**Automated Image Caption Generator, Link-** [**IJSERM**](https://ijsrem.com/download/automated-image-caption-generator/)

Published in IJSERM (International Journal of Scientific Research in Engineering and Management- May 2023

# CERTIFICATIONS

**Data Analysis with Python-** [**Certificate**](https://www.credly.com/badges/9402bb25-c635-420a-8b85-22a421cf37fe/linked_in_profile)