

KEERTHI EARRA

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EDUCATION

University of Florida

August 2022 - May 2024

Master of Science in Computer Science, **GPA : 3.88 - Graduate Research Assistant**

Gainesville, FL

Coursework: Algorithms, Advanced Data Structures, Database, Distributed OS, Computer Networks Security, ML

Jawaharlal Nehru Technological University (JNTUH)

2018-2022

Bachelors of Technology in Information Technology, GPA:3.33

Telangana, India

TECHNICAL SKILLS

Devops/cloud:	AWS	CI-CD	JIRA	Confluence	Postman	Jenkins	Eclipse
Tools/Platforms:	Agile	GIT	PowerBI	IntelliJ	JMP	MS Excel	RStudio
ML/AI:	CNN	Pandas	KNN	Tensorflow	Numpy	GAN	EDA
Web Technologies:	HTML	CSS	ReactJS	NodeJS	REST API	Bootstrap	EJS
Languages:	Python	Java	C++	C Prog	SQL	JavaScript	Erlang

WORK EXPERIENCE

Graduate Research Assistant, University of Florida Soil Department

Aug 23-Present

- Utilized **Excel** and **Python's Pandas** and **NumPy** for analyzing plant phosphorus (P) bioavailability in soil, enhancing accuracy by 30%. Employed **Matplotlib**, **Seaborn**, **PowerBI**, and **JMP** for data visualization, leading to a 25% improvement in the precision of Mehlich-3 P fertilizer recommendations.
- Designing a responsive website via **TerminalFour** employing **HTML** and **CSS** to showcase bioavailability findings.

Software Engineering Intern, Techwave Consulting Inc., Houston TX

May - Aug '23

- Significantly enhanced the Retail Foreign Exchange Platform's reliability by developing an offline module and ensuring uninterrupted online services through **Jenkins** and **SonarQube** for **CI/CD** pipeline management and quality code delivery.
- Enhanced business intelligence and decision-making efficiency by **25%** through strategic **Power BI** implementations, creating real-time dashboards for monitoring exchange rates, and transaction volumes.
- Enhanced system efficiency and productivity by **20%** through **Agile** methodologies, developing new features with **Python**, and optimizing database management with **MySQL** integration.

Software Engineer Intern, Opentext, Bangalore, India

Mar - Jul '22

- Streamlined project delivery by adopting Agile frameworks, working with a cross-functional team of 15 and using **JIRA**, **Confluence**, **Postman** and **Jenkins** for robust **CI/CD pipeline** integration and **Root Cause Analysis**.
- Increased code robustness and reduced manual testing by 60% through the implementation of **Selenium** automation scripts in **Java**, reinforcing error diagnosis and resolution in software development cycles.
- Architected and deployed scalable **RESTful APIs** using **Spring Boot**, enhancing system integration and automating functionalities, which improved team productivity by **50%** and expedited issue resolution.

Software Trainee Internship, Techwave Consulting Inc. Hyderabad, India

Apr - Jun '21

- Acquired proficiency as a software trainee in diverse technological stacks and development tools, enhancing knowledge in **full-stack development**, and becoming adept in Agile methodologies, version control systems like **Git**, and continuous integration/continuous deployment (CI/CD) practices.

PROJECTS

Hybrid VAE for Network Anomaly Detection | Python

Dec 2023

- Developed a **Hybrid VAE** architecture for network anomaly detection, integrating **CNN** and **LSTM layers** in an unsupervised learning framework, effectively leveraging the **UNSW NB 15** dataset to achieve **89% accuracy**.

Global Terrorism Analysis | Time Series Regression Modeling, Python

Sept 2023

- Implemented **Exploratory Data Analysis** on Global Terrorism dataset predicts casualties via **linear regression**.

Handwritten Digit Recognizer | Python

May 2023

- Implemented **Generative adversarial networks** and **Variational Autoencoder** models on MNIST dataset via **Tensorflow** model. Achieved **94.3% accuracy** on testing.

Twitter-Like Engine | Erlang

Sep 2022

- Implemented Twitter clone employing **Actor Model**, **WebSocket interface**, **client-server** architecture. and boosted performance by **92%** CPU time.

Facial Expression Detection | Lightweight Convolutional Neural Network, Python

Jun 2022

- Led a team of 4 to design a Real-time facial expression detector. Applied **Multitask Cascaded CNN** and achieved **88% accuracy**.

CERTIFICATIONS AND PARTICIPATION

- AWS** Certified Cloud Practitioner
- Joy of Computing using Python, **NPTEL**
- Served as **Vice President of Public Relations** for **Toastmasters International**, over a 3-year membership period.