

KEERTHI EARRA

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EDUCATION

University of Florida

Master of Science in Computer Science, GPA : 3.8

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

August 2022 - May 2024

Gainesville, FL

Jawaharlal Nehru Technological University (JNTUH)

Bachelors of Technology in Information Technology, GPA:3.33

July 2018 - July 2022

Telangana, India

TECHNICAL SKILLS

Devops/cloud:	AWS	CI-CD	JIRA	Confluence	Postman	Jenkins	Eclipse
Tools/Platforms:	Agile	GIT	PowerBI	IntelliJ	JMP	MS Excel	MATLAB
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

Software Engineer, University of Florida Institute of Food and Agricultural Sciences

Aug 23 - Present

- Utilized **Python libraries** (Pandas, NumPy, Matplotlib, Seaborn) for in-depth **data manipulation** and statistical analysis, integrating advanced features like **Macros** and **Pivot tables** in **Excel** to enhance data accuracy by **30%**.
- Utilized **JMP** for advanced **data visualization** and Exploratory Data Analysis (**EDA**), applying statistical modeling to generate detailed reports, resulting in a **25%** improvement in the precision of data-driven recommendations.
- Designed a **responsive website** using **TerminalFour**, **HTML**, and **CSS**, effectively creating a platform to present and disseminate complex data findings, improving accessibility and engagement with technical content.

Software Engineering Intern, Techwave Consulting Inc., Houston TX

May - Aug '23

- Significantly enhanced the Retail **Foreign Exchange Platform's** reliability through **Jenkins** and **SonarQube** for **CI/CD** pipeline management and quality code delivery.
- Upgraded **business intelligence** and decision-making efficiency by **25%** through strategic **Power BI** implementations, creating real-time dashboards for monitoring exchange rates, and transaction volumes.
- Boosted 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

- Worked on **Documentum D2**, an enterprise content management system, collaborating with a 15-member team, and utilizing **JIRA**, **Confluence**, **Postman**, and **Jenkins** for **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**, enhancing the security and efficiency of document management.
- Architected and deployed scalable **RESTful APIs** using **Spring Boot**, improving system integration, automating functionalities, and boosting team productivity by **50%** within the Documentum D2 project.

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

Handwritten Digit Recognizer | Python

Mar 2023

- Implemented **Generative Adversarial Networks** (GAN) and **Variational Autoencoder** (VAE) models on the MNIST dataset using TensorFlow, achieving a testing accuracy of **94.3%**. Enhanced the model's robustness and performance through extensive hyperparameter tuning and training optimizations.

Global Terrorism Analysis | Time Series Regression Modeling, Python

Dec 2022

- Performed **Exploratory Data Analysis** on Global Terrorism dataset to uncover trends and patterns, and developed a **Time Series Regression** model that improved casualty prediction accuracy by **20%**, providing valuable insights for policy-making.

Twitter-Like Engine | Erlang

Sep 2022

- implemented a Twitter clone utilizing the **Actor Model** and **WebSocket interface**, enabling efficient client-server communication. Advanced system performance by **92%** in CPU time through optimized algorithms and efficient resource management.

Facial Expression Detection | Lightweight Convolutional Neural Network, Python

Jun 2022

- Developed a real-time facial expression detection system using **CNN** in **Keras** with **TensorFlow**, achieving **80%** accuracy. Employed **OpenCV** and Haar cascades for real-time video frame capture and face detection, enhancing interactive software and psychological studies.

CERTIFICATIONS AND PARTICIPATION

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