

# VARSHITH KOLA

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## EDUCATION

### UNIVERSITY OF CENTRAL FLORIDA

Master's of Science in Computer science

Orlando, FL

MAY 2025

- **Key Courses:** Design and Analysis of Algorithms, Computer Communication Network Architecture, Advanced Computer Architecture, Malware, Data Mining, Machine Learning.
- **Cumulative GPA:** 4.0/4.0

## SKILLS

- **Languages:** Java, Python, C, HTML5, CSS, JavaScript (ES5/ES6), SQL
- **Frameworks:** Pandas, React.js, Node.js, NumPy, Matplotlib, Seaborn, Scikit-Learn, Seaborn, Keras
- **Tools:** AWS, Visual Studio Code, Git, Eclipse(IDE), Azure, Docker, Kubernetes, Jupyter Notebook
- **AI/ML:** CNN, KNN, TensorFlow, GAN, Flask, NLP, LLM's
- **Data Analysis & Visualization:** Data Cleaning, Data Wrangling, Exploratory Data Analysis (EDA), Feature Engineering, Statistical Analysis, Hypothesis Testing, A/B Testing, Time Series Analysis, Data Visualization
- **Skills:** Machine Learning, Deep Learning, Model Deployment, Model Evaluation, Front-end, Agile, Back-end, Micro-Services, Unit-Testing, SCRUM, DevOps, MySQL

## EXPERIENCE

### AICTE-AWS CLOUD

#### AWS Cloud Intern

Hyderabad, INDIA

Oct 2021 - Dec 2021

- Completed AICTE's AWS Training Program, specializing in AWS and cloud computing.
- Led AWS service deployment with a focus on stringent security and compliance standards.
- Gained hands-on experience through labs, translating theory into practical skills.
- **Distinguished achievement:** Achieved AICTE certificate for AWS proficiency.
- Augmented expertise in cloud computing, poised to excel in cloud technology roles.

### AICTE- PALO ALTO

#### Cyber Security Intern

Hyderabad, INDIA

Mar 2022 - May 2022

- Completed PALO ALTO Cybersecurity Internship program through AICTE, gaining hands-on experience in advanced cybersecurity technologies.
- Performed configuration and management of Palo Alto firewalls, monitored network traffic for threats, and supported incident response efforts.
- Conducted threat assessments, vulnerability scans, and stayed current with cybersecurity trends.
- Evaluated Palo Alto Networks' suite of security tools.
- Earned internship completion certificate.

### Zasket

#### Data science Intern

Hyderabad, INDIA

June 2022 - July 2023

- Analyzed large datasets using Python and SQL to extract meaningful insights, support data-driven decision-making, and perform statistical analysis.
- Created and validated predictive models using machine learning algorithms, including linear regression, decision trees, and random forests, improving accuracy and efficiency.
- Designed data visualizations with Matplotlib, Seaborn, and Tableau to communicate complex data insights to stakeholders.
- Collaborated with cross-functional teams to define data requirements, document workflows, and deliver actionable insights aligned with business objectives.

## PROJECTS

### SECURE DATA SHARING IN CLOUD COMPUTING USING REVOCABLE STORAGE IDENTITY BASED ENCRYPTION

- Implemented Revocable Storage Identity-Based Encryption (RS-IBE) for data security.
- Designed a robust security model to ensure data confidentiality.
- Reduced key authority workload, improving system scalability.
- Built system with JAVA, JavaScript, HTML, CSS, JSP, and MySQL.

### Virtual Mouse Hand Gesture Recognition Using OpenCV With Voice Assistant

- Developed a virtual mouse system using OpenCV and Media Pipe for hand gesture recognition, enabling mouse control without physical devices.
- Integrated voice command functionality leveraging Speech Recognition to enhance user interaction and system accessibility.
- Utilized Python, OpenCV, Media Pipe, and Speech Recognition technologies, showcasing skills in AI-based application development and user interface design.

### ALZHEIMER'S DISEASE DETECTION

- Innovated NMF-TDNet for accurate Alzheimer's diagnosis.
- Replaced PCA with NMF for superior feature extraction.
- Employed SVM for precise disease stage prediction.
- Researched and assessed using ADNI-1, ADNI-2, and OASIS datasets.
- Utilized Python, HTML, CSS for implementation.

### CURRENCY PRICE PREDICTION

- Built a currency price prediction model using Python, pandas, yfinance, Prophet, and Plotly, focusing on data analysis, forecasting accuracy, and visualization through feature engineering and predictive modeling.

## CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Cloud Foundations : [{LINK}](#)
- AWS Academy Graduate - AWS Academy Cloud Architecting : [{LINK}](#)
- Cybersecurity Essentials - CISCO : [{LINK}](#)
- IT Academy: Network Virtualization Concepts - VMWARE : [{LINK}](#)
- The Joy of Computing using Python
- Programming, Data Structures and Algorithms Using Python