BHARATHI DONKU

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SUMMARY

Master's in Computer Science student with strong foundational knowledge in AI/ML, deep learning, and data analytics. 3+ years of experience in software development and back-end engineering, currently contributing to research in large language models and mobile app privacy and security. Proficient in Python, deep learning, and machine learning algorithms. Actively seeking a Python AI Internship to apply data-driven solutions and further develop machine learning expertise.

EDUCATION

Masters in Computer Science Graduating Dec 2025
Kent State University, Ohio 3.966 GPA

Relevant coursework: Machine Learning and Deep Learning , Big data Analytics, Data Mining Techniques,Information Security, Advanced Database System Design

TECHNICAL SKILLS

Soft Skills: Self Motivated, Problem-solving,Leadership, Decision Making, Inter personnel skills
Programming: Python, Java,C#, Machine Learning , Deep Learning , SQL, GIT, Spring Boot, Restful API's ,HTML,CSS , Javascript,MangoDB Compass
AI/ML Frameworks & Libraries: TensorFlow, PyTorch, Keras, scikit-learn, Transformers, NLTK, SpaCy, OpenCV
Software Tools: MY SQL Workbench, Eclipse, Visual Studio, Spring Tool Suite, Postman, PG Admin,Pycharm, MangoDB

PROFESSIONAL EXPERIENCE

Cognizant, Bangalore, India: Program Analyst Intern Dec 2021- Mar 2022

- During my tenure as a Program Analyst Intern at Cognizant, I received comprehensive training in Java programming, Web services (including SOAP/Rest), Microservices, the Spring framework, and cloud technologies.
- This experience enabled me to collaborate effectively with teams while adhering to industry-standard coding practices, fostering a culture of excellence and innovation.

Harman Connected Services Corporation India Pvt.Ltd , Bangalore, India: Engineer April 2022 – Dec 2023

- Demonstrated expertise in Agile methodologies and over 2 years of experience in developing scalable web applications using Spring Boot, Java, Microservices, and REST APIs, leveraging MySQL for effective data management.
- Resolved fortify security issues, including Black Duck vulnerabilities, through thorough code reviews and secure coding practices, ensuring robust application security.

ACADEMIC PROJECTS

Image Classification of AI Images and Real Images Spring 2024
Classification

- Utilized CNN and ResNet50 for classifying AI images and real images.
- Showcased competitive performances with both models in classifying the dataset.
- CNN demonstrated balanced metrics, while ResNet50 exhibited superior accuracy and overall performance.

Gene Expression Cancer RNA-Seq Summer 2024
Clustering

- Applied Principal Component Analysis (PCA) and t-SNE for effective dimensionality reduction and clear visualization of gene expression data, identifying optimal clusters using the Elbow Method and Within-Cluster Sum of Squares (WCSS).

Emotion Recognition –Image Classification Feb 2024 Fall 2024
Image Classification

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Crowd-Sourced Recipe Collection Web Application Summer 2025

Web Application

- Developed a full-stack web application for users to submit, browse, search, and rate community-contributed recipes, enhancing user engagement through interactive features.
- Built a responsive front-end using HTML, CSS, JavaScript, ensuring a smooth experience across devices.
- Implemented a secure back-end with Flask and integrated a MongoDB database to manage users, recipes, and ratings.

OTHER WORK EXPERIENCE

Kent State University, Kent, Ohio: Graduate Teaching Assistant Aug 2024 – current

- Supported undergraduate students in Machine Learning and Deep Learning coursework.
- Assisted with concepts including supervised learning, CNNs, RNNs, and model evaluation.
- Helped students understand Python ML libraries including scikit-learn, TensorFlow, and Keras.

Kent State University, Kent, Ohio: Graduate Research assistant Jan 2024 – current

- Conducting research on large language models (LLMs) and transformer-based architectures to investigate their potential in identifying security vulnerabilities in mobile apps.
- Extracted and analyzed permissions from apps and manifest files using scraping tools and NLP techniques.
- Presented findings in paper accepted at **CHI 2025**, co-hosted by Google & Microsoft.

CERTIFICATIONS

- **Introduction to Artificial Intelligence (AI) — Coursera**
- Learned core AI concepts including machine learning, neural networks, natural language processing (NLP), and ethical AI principles.
- **How to Build a Chatbot – IBM**
- Received certification from IBM for designing and building AI-powered chatbots using IBM Watson Assistant, including intent classification, dialogue flow, and deployment.

PUBLICATIONS

- Paper titled "**Discrepancies in Mobile App Permissions: Exploring Transparency and User Awareness in the Android Ecosystem**" accepted at CHI 2025 Conference, a leading venue for human-computer interaction research, hosted by Google & Microsoft in Japan.