MANJJU SHREE DEVY GENDETI

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EDUCATION

Arizona State University	**Aug 2022 – May 2024**
Master of Science in Computer Science, Tempe, AZ	*GPA: 3.90/4.00*
Indian Institute of Information Technology, Sricity	**Aug 2018 – May 2022**
Bachelor of Technology in Computer Science and Engineering, Andhra Pradesh, India	*GPA: 8.40/10.00*

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, Flutter, C, HTML, CSS, R, SQL, NoSQL, Bash
Tools and Technologies: Git, GitHub, JupyterLab, Linux, Docker, MySQL, PostgreSQL, Heroku, AWS
Frameworks: React.js, Node.js, Express.js, Bootstrap, JQuery, Django, REST API, MongoDB
Libraries: Pandas, NumPy, Seaborn, Scikit-Learn, TensorFlow, SciPy, NLTK, Spark, Power BI

EXPERIENCE

Artificial Intelligence Institute, University of South Carolina   **Jan 2022 – July 2022**
Software Developer - Data Science Intern   *Columbia, SC*
- Built a benchmark for Joint Embedding in Memotion Analysis on Twitter Memes.
- Constructed a six-stage architecture, integrating VGG19, Co-location, and PPMI models for image and text embeddings.
- Surpassed State of the Art (SOTA) in Memotion tasks: Sentiment classification: +16%, Humor classification: +4.6%, Scales of semantic classification: +14.6%
- Built a MERN app, leveraging React to enhance user interaction with a 15% improvement in interface responsiveness.

Wipro Research   **May 2021 – Dec 2021**
Software Developer - Machine Learning Intern   *Bangalore, India*
- Collaborated with a group of 5 members to design and implement a pipeline for "Fake News Detection" using DL models.
- Developed a model for accurate claim classification into three categories: Entail, Refute, and Not Enough Info.
- Achieved a 77% recall score, surpassing State of the Art (SOTA) by 14.9%, through the combination of retrieval models.
- Engineered a scalable back-end architecture using Node.js and Express, handling over 10,000 API requests per day.

Iha Pragyan   **Feb 2021 – May 2021**
Software Developer Intern   *Hyderabad, India*
- Boosted task management efficiency by 20% in team "GhettoGroupo" through advanced CRUD functionality.
- Integrated Stripe checkout, leading to a rise in successful transactions and streamlined authentication processes.
- Established developer portal for REST API access, attracting 30% more third-party integrations like social media sharing.
- Introduced Whiteboard and audio rooms, elevating user engagement by 25% in project discussions & breaks.

PROJECTS

Guardian Angel | *Kotlin, Android Studio, Flask Server, Machine Learning, MATLAB*
- Led the development of a cutting-edge road safety project, integrating Android, Flask, and real-time monitoring, detecting drowsiness, distraction, and stress.
- Integrated seamless integration with MATLAB Simulink, showcasing strong collaboration across 5 disciplines.
- Demonstrated proficiency in Android app development API 29+, contributing to project success.

Flipkart Data Analysis | *FastText, Gensim, NLTK, Seaborn, Keras, Python, Pyspark, Spark*
- Developed a product category prediction model achieving 97.0% accuracy using advanced NLP and CNN techniques.
- Improved data distribution and reduced labels from 266 to 27, enhancing efficiency and achieving a 96% weighted F1 score.
- Executed comprehensive data analysis, like querying, aggregation, exploratory analysis, & data visualizations.
- Designed and managed ETL data pipelines using Spark to support ML model requirements and API data feeds.

Face Detection | *Tensorflow, OpenCV, Keras, Pillow*
- Developed robust face detection with YOLOv3 on WIDER dataset, enriched with image processing for adaptability.
- Enhanced system performance in low light, noise, and blurriness, incorporating advanced image processing techniques.

ACHIEVEMENTS

Research Work, Mining Intelligence and Knowledge Exploration Conference   **Jan 2021 – Dec 2021**
First author of publication   *IIIT, Sricity*
- Generated a model for summarizing Amazon reviews, and attained impressive results, including 77% recall & 74% F1 score.
- Recognized for research excellence; paper accepted at MIKE 2021 conference, ranked among the top 3 best papers.