Rishitej Yadav Pallapothu

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EDUCATION

Master of Science, Computer Science. *CGPA: 3.67/4.00*

Arizona State University, Tempe, AZ *August 2023 - May 2025*

- **Course Work**: Foundation of algorithms, Software Verification Validation and Testing, Mobile Computing, Knowledge Representation and Reasoning, Artificial Intelligence, Data Mining.

Bachelor of Technology, Computer Science. *CGPA: 8.50/10.00*

Indian Institute of Information Technology Tiruchirappalli, India *August 2019 - May 2023*

- **Course Work**: Data Structures Algorithms, Software Engineering, Mobile Application Development, Service Oriented Architecture, Operating Systems, Database Management Systems, Data Warehousing and Data Mining, Machine Learning, Cloud Computing, Network Security, Data Science, Image Processing, Bitcoin and Crypto Currencies.

SKILLS

- **Programming Languages:** C, C++, C#, Python, Java, HTML, CSS, JS, SQL, Kotlin.
- **Tools:** Git, Postman, Firebase, Android Studio, Docker, OpenCV, Kaggle, Google Colab, REST API, Docker.
- **Machine Learning Libraries:** scikit-learn(sklearn), TensorFlow, PyTorch, NumPy, Pandas, MatplotLib.
- **Technology & OS:** Machine Learning, Django, Microsoft Office suite (Excel, Outlook, Word), Linux, Android, Agile.
- **Interpersonal:** Critical Thinking, Problem Solving, Teamwork, Communication, Attention to Detail, Adaptability.

WORK EXPERIENCE

Deep Learning Intern (Internship Completion Certificate) *May 2022 – July 2022*

Cojag Smart Technologies Pvt Ltd. *Location: Nagpur, India*

- Implemented "**Real-Time Multi-Thermal Face Tracking using Deep Learning Techniques**", achieving a cost-saving solution by 60% cost reduction, that significantly improved **thermal image tracking** accuracy by 6%.

PORTFOLIO WEBSITE (https://rishitej.github.io/portfolio.github.io/)

- Developed a responsive portfolio website leveraging HTML, CSS, and JavaScript to showcase projects and skills.
- Integrated version control with GitHub Pages to host the website, ensuring continuous deployment and easy updates to reflect latest projects and accomplishments.

ACADEMIC PROJECTS

Guardian Angel: Health Monitoring and Travel Safety App (Mobile Computing) *August 2023 – December 2023*

- Developed a context-aware health and travel safety application integrating real-time health monitoring, travel-specific features using **Google Maps API**, and an advisory controller in **MATLAB** for decision-making.
- Incorporated **Firebase** for real-time data synchronization, a local database for efficient data management, Google **API**s (including **Maps API**s) for enhanced location accuracy, and **Kotlin** for **Android development**.

Crop Yield Prediction using Machine Learning techniques (Machine Learning) *January 2023 – May 2023*

- Evaluated existing models, **Random Forest,** and **ANN**, resulting in informed decisions regarding model refinement.
- Designed, trained, and evaluated customized models, **TabTransformer** and **Tabular-BERT** in **Google Colab** and **Kaggle**, tailored for **crop yield prediction**, resulting in enhanced model performance and accuracy by 1%.
- Efficiently implemented model stacking to synergize diverse models, resulting in an overall accuracy improvement with an R2 score of 0.87, surpassing baseline models and improving accuracy by 2%.

HACKATHON ACHIEVEMENTS

***Achy Breaky Hack award*: Cosmic Ink-Mobile Application** (Project link) *13th February 2022*

Devpost Hackathons (Online Hackathon) *Platform: Devpost*

***Best Hack Built using API*: Hack 'n' Solve** (Certificate) *1st April 2022*

Devcation'22 (Online Hackathon) *Platform: Devfolio*