MONA TEJA KURAKULA

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EDUCATION

University of Southern California | Los Angeles, California, USA **August 2023 – May 2025**
Master of Science, Computer Science GPA: 3.73 / 4.00
Coursework: Analysis of Algorithms, Database Systems, Web Technologies, Machine Learning for Data Science, Applied Natural Language Processing, Information Retrieval and Web Search Engines

SKILLS

Programming: Python, Java, C++, JavaScript, Kotlin, R, C, PHP, SQL
Databases & Cloud: MongoDB, MySQL, NoSQL, PostgreSQL, Oracle Database, Firebase, AWS, GCP
Web Technologies: Express.js, React.js, Node.js, HTML5, CSS3, Bootstrap, AJAX, RESTful API, Flask, JSON, NPM, Android Studio
Tools & Frameworks: Git, Postman, Visual Studio Code, Sublime Text, Docker, Selenium, Keras, TensorFlow, PyTorch, Scikit-learn
Data & Libraries: PowerBI, MS Excel, NumPy, Pandas, Polars, Matplotlib, OpenCV, Hadoop, NLTK, Transformers, XGBoost, LightGBM
Other: MS Power Automate, MS SharePoint, Adobe Photoshop, Adobe Premiere Pro, Canva, ServiceNow, Salesforce, RStudio, Tableau

EXPERIENCE

Transformational Change Analyst, Shell **September 2020 – June 2023**
Shell Identity and Access Management | **Transformational Change (TC) Operations** Bengaluru, India, Hybrid

- **Pioneered an Associate Database** for the TC department, streamlining hiring, automating cost calculations, and **saving 1000+ hours of recruiters' time**. Integrated with Power BI, providing **interactive dashboards with KPIs**, offering deeper insights.
- Collaborated with TC Leadership Team to optimize resource management for implementing a comprehensive tracker to monitor **300+ cases (65% department)** related to contractor lifecycle management.
- Spearheaded **QA Testing for FUSION**, a Salesforce-based Change Management application integrated with **Tableau and BI, utilized by over 500+ Managers and Project Sponsors. Authored and verified 183 user stories** to ensure seamless functionality.
- Led the Transformational Change space for Shell Identity Management and Partnering Services, **migrating 84,000+ user records to a new system and improving Identity Lifecycle processes, impacting 8,000+ managers** at Shell and associated companies.

Machine Learning Intern, Matchday.ai [Report][Presentation][Paper] **December 2019 – June 2020**
Automated Visual Tracking and Live Data Analysis | Python, Computer Vision, Transfer Learning, Flask. Hyderabad, India, On-Site

- **Engineered an Automated Player Tracking system using Deep Learning and OpenCV** in a multi-camera environment, **[Link] enhancing real-time analytics** for major tournaments **(Premier Badminton League), reaching a peak viewership of 1.5 million**.
- **Partnered with the Star Sports broadcast crew to deliver real-time statistics (4) and analysis during live broadcast [Link]**.
- Initiated research in soccer by **implementing advanced techniques such as color segmentation and spatial transformation**, achieving **95.6%** accuracy in player tracking and providing valuable data insights **[Link]**.

PROJECTS

Stock Search | Python, Flask, MongoDB, Express.js, React.js, Node.js, Javascript, Kotlin **[Link]** **February 2024 – April 2024**
- Created a **responsive stock trading website (MERN stack)** and an **Android app (Kotlin)**, enabling real-time trade simulation **using RESTful APIs**, featuring buy/sell functionality for stocks, wallet, watch-list, portfolio, and **4** interactive stock charts.
- **TRY IT HERE (3 Applications) – Responsive Website – Android Application Demo – Static Website (Ex Input: AAPL)**.

X-Change VIT | HTML5, CSS3, Bootstrap, PHP, SQL, MySQL, Firebase, Android Studio **[Report]** **January 2019 – March 2019**
- Crafted **2 Functional MVPs (Web and Mobile applications)**, enabling students to search for vacant hostel rooms (24 hostels) in real-time, filter based on preferences, and view room images.
- Orchestrated an online, real-time platform streamlining hostel room allocation for students at VIT, **aims to reduce end-to-end process time from 1 month to 3-5 business days** (VIT Hostels accommodate over 20,000 students).

PUBLICATIONS

Behaviour Based Data Dispatcher [Link] **November 2019**
- Built a **real-time facial emotion recognition system** to capture and classify emotions, with **threshold-based alert** capabilities.

Advanced Image Processing techniques based model for Brain Tumour detection [Link] **December 2018**
- Developed a **model using MRI and CT images for tumor diagnosis** achieving **82.6% accuracy** with an RBF kernel.

Smart Summarizer for Blind People [Link] **November 2018**
- Designed a model that translates and **summarizes environmental surroundings into audio descriptions** for the visually impaired

ACHIEVEMENTS

- **May 2024** - **Ranked 1st in a class of 481** in term exam and appointed as a grader for **Web Technologies** under Prof. Marco Papa.
- **November 2022** - **Vice President Recognition** for outstanding project delivery in **Shell Identity and Access Management** domain.
- **December 2021** - **Transformational Change Operational Excellence Award** for contribution to Shell's Transformational Change Information and Digital Services and Operations (IDSO) as **Transformational Change Operations Lead**.