Anshul Anilkumar Mundakatil

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Education

San José State University   **Aug 2023 – May 2025**
Master of Science Engineering   *GPA: 3.53*
Relevant Coursework: Artificial Intelligence and Data Engineering, Artificial Intelligence and Cybersecurity, AI Tools and Practice for Systems Engineering, Reinforcement Learning and Large Scale Models

SRM University   **Jul 2017 – Jun 2021**
B.Tech Computer Science and Engineering   *GPA: 3.54*
Relevant Coursework: Machine Learning, Artificial Intelligence, Python Programming, Database Management Systems, Data Structures and algorithms, Java, Object oriented programming using C++, Web programming

Projects

AI Enabled RAN Controller Platform for Networks | *Python, TensorFlow, Docker*   **Aug 2023 – present**
- Implemented a Multi-Layer Perceptron to classify network slices using real-time network metrics, achieving a 97% accuracy rate
- Designed real-time data emulation from Distributed Units (DUs) to validate model performance under realistic conditions
- Created an interactive tool, allowing users to visualize UE distributions on a map and view real-time predictions, enhancing decision-making

Harvest Disease Detection | *Python, TensorFlow, Java, Android Studio, Flask*   **Jan 2024 - May 2024**
- Developed a mobile application and a website using PSO-CNN to accurately detect various rice diseases, addressing the challenge of image classification under complex backgrounds
- Proposed and implemented PSO-CNN (Particle Swarm Optimization with Convolutional Neural Networks) to achieve a remarkable 99% accuracy
- Utilized Android Studio to develop the mobile application, providing an accessible tool for real-time detection of rice diseases

Dysarthric Speech Classification | *Python, OpenSMILE, Matlab*   **Aug 2020 – Jun 2021**
- Developed an automated solution for recognizing dysarthric voices with significantly improved accuracy compared to traditional methods
- Combined QCP GIF-extracted glottal features with openSMILE-derived acoustic features to train SVMs for accurate voice classification
- Demonstrated the model's effectiveness, particularly with a 94.13% accuracy rate in classifying dysarthric voices

Experience

Tata Consultancy Services   **Jul 2021 – Jul 2023**
Systems Engineer   *Hyderabad, India*
- Spearheaded the migration of data and solutions to SharePoint Online
- Leveraged Power BI to generate comprehensive reports and actionable insights, enhancing business intelligence
- Developed dynamic apps with Power Apps and InfoPath 2013 tailored to client-specific business needs
- Optimized SharePoint 2013 and SharePoint Online sites, boosting user satisfaction and engagement
- Engineered workflows using Nintex and Power Automate, reducing manual effort and increasing efficiency by over 50%

Gujarat Alkalies and Chemicals Limited   **Jun 2019 – Jul 2019**
Software Engineer Intern   *Vadodara, India*
- Developed an Employee Module project, demonstrating proficiency in key skills such as database management systems, SAP, fundamental Java scripting, SQL and data analytics

Technical Skills

Languages: Python, SQL, C++, C, JAVA, HTML, CSS, MATLAB, Javascript
Analytical Skills: Machine Learning, Data Science, Data Visualization, Computer Vision, Systems Engineering
Technologies: TensorFlow, Pandas, Numpy, MatplotLib, Flask, OpenCV, Sklearn, Pytorch, Power Platform, Power BI

Awards / Certifications

- PL 900, Microsoft Power Platform Fundamentals, Certifying Authority: Microsoft
- Introduction to Data Science in Python
- Applied Plotting, Charting & Data Representation in Python
- Data Structures and Algorithms Expert Level, Coding Practices in Elab, Srm/Elab
- C++ Expert Level, Coding Practices in Elab, Srm/Elab