Anshul Anilkumar Mundakatil

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OBJECTIVE

Graduate with a Bachelor's in Computer Science and Engineering, currently pursuing a Master's in Engineering (Interdisciplinary Engineering) with a Specialization in Machine Learning and Data Science at SJSU. Seeking internship roles as a Machine Learning and Artificial Intelligence Engineer.

EDUCATION

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

B.Tech Compter Science and Engineering, SRM University   Jul 2017 – Jun 2021 | 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.*

SKILLS

Machine Learning | Artificial Intelligence | Data Science | Data Visualization | Data Analysis | Computer Vision | Python

Java | C++ | TensorFlow | Pytorch | OpenCV | Flask | Pandas | NumPy | DBMS | SQL | Power BI | Power Platform

PROJECTS

AI Enabled RAN Intelligent Controller Platform for Cellular Networks   Aug 2023 – present
- Utilized Random Forest and Neural Networks to detect malware in Android/Edge devices, identify DDoS attacks in cloud platforms/base stations, and perform intrusion detection in virtual machines through Virtual Machine Introspection (VMI), encompassing edge computing components
- Actively spearheading the development and implementation of deep learning techniques in Open Radio Access Networks (O-RAN) to enhance network performance and efficiency

Data Science Projects   Jan 2024 – Feb 2024
- **Facial Recognition System:** Developed a classifier utilizing image processing and machine learning algorithms to accurately classify Indian cricket legends. Implemented image preprocessing, feature extraction, data augmentation, model training, evaluation, and deployment.
- **Real Estate Price Prediction:** Created a real estate price prediction website for Bangalore homes. Built a predictive model using Scikit-learn and linear regression, developed a Python Flask server, and deployed a user-friendly website using HTML, CSS, and JavaScript.

Artificial Intelligence and Data Engineering Projects   Aug 2023 – Dec 2023
- **Informative Search using A* Algorithm and Comparison to Uninformed Search Methods:** Achieved Maze Solving Proficiency (A*, Dijkstra, BFS) and Heuristic Analysis for 25x25 mazes
- **MDP-Based Path Planning and Optimization:** Applied Sequential Decision Making with MDPs for Optimal Path Discovery (Value Iteration, Policy Iteration) in maze environments and improved efficiency via broadcasting
- **Sequential Decision Making in Pendulum Dynamics with LQR Control:** Enhanced Pendulum Control System by Modeling Dynamics and Implementing LQR for Optimal Control, exploring Weighting Matrices
- **Information-bottleneck-method:** Implemented the Information Bottleneck algorithm efficiently utilizing broadcasting techniques to optimize the compression of data

Dysarthric Speech Classification   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, leveraging machine learning techniques. Trained Support Vector Machines (SVM) as part of the machine learning pipeline for precise voice classification
- Demonstrated the model's effectiveness, particularly with a 94.13% accuracy rate in classifying dysarthric voices

PROFESSIONAL EXPERIENCE

Systems Engineer, *Tata Consultancy Services, Hyderabad, India*   Jul 2021 – Jul 2023
- Designed and optimized SharePoint 2013 and SharePoint Online sites for enhanced user experience
- Developed efficient workflows using Nintex and Power Automate.
- Created forms using Power Apps and InfoPath 2013 to augment migration solutions
- Contributed to the migration of data and solutions to SharePoint Online, improving productivity.
- Generated data-driven insights by producing detailed reports on Power BI

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

AWARDS & CERTIFICATIONS

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