

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 Computer 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.

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, and data analytics
- Effectively employed SQL commands to manipulate data and actively contributed to the maintenance and management of the company's database

AWARDS, CERTIFICATIONS

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

Awards:

- Data Structures and Algorithms - Expert Level, Coding Practices in Elab, Srm/Elab
- C++ Expert Level, Coding Practices in Elab, Srm/Elab