Akash Rane

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PROFILE

An aspiring Computer Science Engineer with a focus on machine learning and data analysis, currently pursuing a Master's in Computer Science. Proficient in Python, Data Analysis, JavaScript, and building AI-driven solutions.

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems — New York, NY
Master's in Computer Science | **Concentration**: Data Science & Software Development | GPA**: 3.90/4** — Dec 2025

SPPU - Savitribai Phule Pune University — Pune, India
Bachelor of Engineering in Computer Engineering | **Concentration**: Data Science | **GPA: 9.4/10** — Jul 2022

RELEVANT COURSEWORK

Object Oriented Programming | Machine Learning | Advanced Data Structure | Data Analysis | Project Development | Cloud Computing

TECHNICAL SKILLS

Programming Languages: Python, C++, C, HTML, CSS, Java
Database Management: SQL, PL -SQL, Influx DB
Data Visualization Tools: Power BI, Node Red, Influx DB, Grafana
Libraries: Seaborn, Matplotlib, Pandas, OpenCV, Sklearn, Keras, TensorFlow

PROFESSIONAL EXPERIENCE

Optify Industrial Solutions Pvt. Ltd. — Pune, India
Computer Science Engineer & Business Intern — Jul 22 – Dec 23

- Developed a Python project to deliver daily insights and reports to factory owners, improving decision-making efficiency.
- Designed user-friendly dashboards for the control panel system, enhancing usability and operational oversight.
- Developed OPC UA and other communication protocols for seamless integration with control panels using Python, enhancing system connectivity and automation.
- Facilitated on-site project implementation for 1 month to ensure smooth deployment and integration.
- Coordinated pitch deck creation and delivered funding pitches, securing government grants for the company.

PROJECTS

Automated Operational Analytics and Reporting — Month Year – Month Year

- Developed a python automation script leveraging Matplotlib, Pandas and Influx DB, to streamline data processing and generate daily operational reports for factory owners, saving 30% of their time and enhancing data driven decision-making.
- Created a single compound graph to deliver comprehensive insights into 8 key metrics of factory operation which helped in immediate operational oversight and efficiency for the factory.

Prediction Model of Exhaust Air Temperature — Month Year – Month Year

- Built a neural network model using TensorFlow and Keras to Predict exhaust air temperature by optimizing mean squared error with the Adam optimizer, enabling real-time user input for accurate predictions.

Real-Time Object Measurement Application

- Developed a Python app using OpenCV and Aruco Markers to measure object dimensions in real-time, enhancing accuracy with image segmentation.

PUBLICATIONS

- Title: Application for Real Time Object Measurement, Journal: International Journal of Advanced Research in Science, Communication and Technology, Year: 2022, Link:IJARSCT_Paper5228
- Title: A Review on Object Measurement Techniques, Journal: International Journal of Advanced Research in Science, Communication and Technology, Year:2022, Link: IJARSCT_Paper3682
- Title: An Experimental Assessment of Deep Learning on Highway Driving, Journal: Journal of Science and technology at National Conference on Cognitive Computing., Year:2021, Link: [Paper, Certificate]

LEADERSHIP

Sinhgad Student Council, Sponsorship Department Head — Month Year – Month Year

- Led sponsorship efforts as Sponsorship Head for the Sinhgad Student Council, securing a title sponsor and three event partners for university events and teams.