ADITYA AKILESH MANTHA

+1(515) 567-9511 ⋄ 3732, Tripp Street, Ames, Iowa 50014, United States

aditya98@iastate.edu ⋄ https://www.linkedin.com/in/aditya-akilesh-mantha-29b6001b7 ⋄

OBJECTIVE

Master's student in Computer Engineering, focusing on computing and networking systems and data science, seeking internship/co-op opportunities for Summer 2023 in related positions to demonstrate and enhance my skills.

EDUCATION

Master of Science (M.S.), Computer Engineering   2022 - Expected 2024
Iowa State University, Ames, USA   (GPA: 3.78/4)
Coursework: Deep Learning, Real-time Systems, Computer Architecture, Numerical Analysis of Hi-Performance Computing, Distributed Systems & Middleware

Bachelor of Technology (B.Tech.), Electrical & Electronics Engineering   2015 - 2019
Jawaharlal Nehru Technological University (JNTU), Kakinada, India   (GPA: 7.77/10)

EXPERIENCE

Rubixe Pvt. Ltd.
Data Science Intern   (December 2021 - May 2022) *Visakhapatnam, India*

- Performed exploratory data analysis and visualization to identify trends & patterns using python libraries.
- Developed and deployed machine learning models and analysis tools to evaluate defined metrics.

Struger Innovations Pvt. Ltd.
Embedded Systems Intern   (September 2019 - November 2019) *Visakhapatnam, India*

- Designed and developed smart agriculture-based sensing devices using PIC (16F877A) and Raspberry Pi single-board micro-controllers.
- Worked on serial communication interfaces (SCI): RS-232 and Synchronous Serial Communication Interface: I2C, SPI, SSC, and ESSI (Enhanced Synchronous Serial Interface).
- Performed QoL testing for PC (16F877A) micro-controller embedded software.

Dr. Narala Tata Rao Thermal Power Station (NTTPS)
Summer Intern   (April 2018 - May 2018) *Vijayawada, India*

- Completed two months of training and learned extensively about electricity generation in a thermal power plant, including the functioning of turbines, boilers, cooling systems, generators, and other electrical systems.

ACADEMIC & PROFESSIONAL PROJECTS

Real-time CANbus Network: Developed real-time CANbus system using Raspberry Pi, Arduino UNO, and MCP2515 and evaluated protocol performance.

Diabetic Retinopathy classification using Deep Learning: Developed ML-based algorithm using Convolution Neural Network (CNN) for classification of severity of diabetic retinopathy.

Performance Analysis of different cache replacement policies, Implemented and analyzed different cache replacement policies at each level of two-level and three-level cache memory hierarchy using GEM5.

Heart Disease Prediction Performed exploratory data analysis, data visualization, and univariate & bivariate analysis for a heart disease prediction and developed an ML-based algorithm using logistic regression for heart disease prediction.

Portuguese Bank Marketing Prediction Performed exploratory data analysis and data visualization for target variable and developed an ML-based algorithm using a Random forest algorithm for bank marketing prediction.

Design of Single Phase Cyclo-Converter Performed simulation of single phase cycloconverter using astable multivibrators, Op-Amp, and power electronic switches in multisim.

TECHNICAL SKILLS

Programming Languages: Python, C, Latex
Machine Learning packages: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborne, Scipy, Tensorflow
Software Platforms: LABVIEW, Multisim, MATLAB, PSpice, MS Office
IDE: Anaconda, MPLAB,
Operating System: Windows, Linux
Languages: English (Fluent), Telugu (Native), Hindi (Proficient)

ACHIEVEMENTS

- Secured 2nd rank in the Internship exam conducted by NTTPS in 2018.
- Secured 2nd prize in Annual chess competition 2017-18 conducted in our college.
- Secured 2nd prize in Techwiki-2k17 for PowerPoint Presentation on INDUSTRIAL DRIVES.
- Secured 3rd prize in a Robotics competition held by RoboKart in association with I.I.T. Bombay in 2017.
- Secured 1st prize in CollegeEvent-2k16 for PowerPoint Presentation on SMART GRID in 2016.

CERTIFICATIONS

- Attended Workshop on Face Detection and Tracking at SHASTRAA – Technical Fest held at I.I.T. Madras in 2018.
- Attended Workshops on Raspberry Pi for I.O.T. at SHASTRAA – Technical Fest held at I.I.T. Madras in 2018.
- Participated as a Designer in Vidhyuthra – 2k17 Technical Fest conducted by Gayatri Vidya Parishad College of Engineering (A).
- Participated in the "Internet of Things" workshop conducted by GREEN LINE LABS in 2016.
- Participated in Vizag Coastal cleanup event conducted by Ken foundation in 2016.
- Participated in Beach Cleaning and 5k Run event hosted by our college in 2016.
- Participated in a Blood donation camp conducted by Rotary Blood Bank in 2016.

VOLUNTARY EXPERIENCE

- Volunteered T.C.S. Placement Drive in our CoCollege
- Volunteered VIDHYUTRA – Technical fest conducted by our College.
- volunteered IEEE Technical Quizs & Events.