

Mani Shanker Kamarapu

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EDUCATION

- **University of Massachusetts Amherst** MA, USA
• *Master of Science in Data Analytics and Computational Social Science* Expected Graduation: Dec 2023
Course work: Data Science, Research Design, Text as Data, Quantitative Analysis, Machine Learning, Statistics, Business Intelligence, Statistical Computing.
- **Osmania University** Hyderabad, India
• *Bachelor of Engineering in Electronics and Communication Engineering* Aug 2015 – May 2019
Course work: Computer Architecture, C, C++, OOPS using Java, Computer Programming, Probability theory, Network Analysis, Signal Analysis and transforming technology, Applied Mathematics, VLSI design, Data Communication and Computer networks, Digital Image Processing, Startup Entrepreneurship.

SKILLS

- **Languages and Databases:** Python, R, C, C++, Java, MATLAB, MySQL, NoSql, Oracle, PowerShell, Keil.
- **Frameworks and Libraries:** Ggplot2, Plotly, Tidyverse, Summarytools, Stats, Tidytext, Quanteda, Relenium, Lubridate, Rvest, Devtools, TensorFlow, Keras, PyTorch, OpenCV, SciPy, Matplotlib, Seaborn, Scikit-learn, Numpy, Pandas.
- **Tools:** Kubernetes, Docker, GIT, Tableau, Power-BI, Google Data Studio.
- **Platforms:** Ubuntu/Linux, Windows, AWS, Azure, Google Cloud Platform, Rest API, Excel, Arduino.
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Project Management.
- **Certifications:** AWS Cloud Practitioner, Business English.

WORK EXPERIENCE

- **Workshop Ambassador - Instructional design** MA, USA
• *University of Massachusetts Amherst* Aug 2022 – Present
 - Designed and updated tutorials each of 90 min long to deliver library workshops.
 - Led a team to create a DACSS Digital Careers portfolio of 500+ students and published as website for recruiters.
 - Mentored and coached 14 novice programmers resulting in 100% retention.
- **Data Analyst - International Outreach Student Ambassador** MA, USA
• *University of Massachusetts Amherst* Aug 2022 – Present
 - Communicated with 400+ potential and incoming students and meet them in-person or on Zoom.
 - Visited campus events to share information and recruit for DACSS and analyse data of 1000+ potential students.
 - Organized the outreach program, which grew enrollment from 6 students to 45 students in 2 months.
- **Senior Systems Engineer** Hyderabad, India
• *Infosys Limited* Dec 2019 – Jul 2022
 - Identified, analyzed and executed 10+ new products, services and opportunities using Open source tools.
 - Provided 2nd level support (troubleshooting, administering and service-restoration) for 1000+ Windows servers.
 - Automated 50+ scripts using Power Shell for various AD purposes and increased efficiency by 72%.
 - Collected & converted 5 years data into actionable insights by predicting and modelling outcomes using Tableau.
 - Prepared reports by Excel and using the predicted data and interacted with client decreasing incidents by 56%.
- **Data Analyst Intern - Embedded design** Hyderabad, India
• *Centre for Development of Advanced Computing* Apr 2018 – May 2018
 - Accumulated, Manipulated and Visualized the collected data to get the 96% accurate outputs.
 - Studied and explained the theoretical and practical understanding of Embedded C for 40+ students.
 - Collaborated with CDAC and gathered an in-person 2 hours workshop which led to growth of program by 46%.

PROJECTS

- **Bank Customer Churn Prediction and Factor Classification:** Implemented exploratory data analysis, manipulation to predict the churn factors using numpy, pandas and matplotlib. Accomplished comparative Analysis between KNN & Matrix Factorization and obtained 91% efficiency.
- **Symptom Diagnosis and Disease Prediction Analysis:** Gathered data using web-scraping methods by rvest. Tokenized, assembled and encoded the data into algorithms, achieving 78% accuracy. Categorized the algorithms and accumulated the disease prediction from symptoms.
- **Quantitative Analysis of Olympics data:** Mined and analyzed Olympics data to classify category specific using the regression to achieve a model accuracy of 84% performed data wrangling techniques, combining multiple flat files using SQL joins, imputing missing values and statistical analysis.
- **The Smart Helmet:** Cleansed and transformed unstructured data using SQL procedures, Python & descriptive statistical methods. Interpreted daily accident rate data and preventive procedures. Provided recommendations on a micro controller connected GSM and GPS module known enough to find accident location if it occurs and a message enable device and achieved 80% accuracy.