SANDEEP PERUMALLA

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EDUCATION

M.S., Data Science, State University of New York at Buffalo,Buffalo,New York,USA,2021-Present

B. Tech.,Mechanical Engineering, Amrita School of Engineering, Coimbatore & Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore, Tamil Nadu, India, CGPA 8.66/10, 2014-2018

RESEARCH WORK

Published a Journal on 'The TQM Journal'. In this, Order of Magnitude Analytic Hierarchy Process (OM-AHP) was used as a methodology to analyse the extensive data collected from organisations to assess the prioritisation of supply chain risks.

https://www.emerald.com/insight/content/doi/10.1108/TQM-01-2020-0008/full/ht

ACADEMIC PROJECTS

1) Worked on project related to Analysing Business Risks in Supply Chain Risk Management by collecting data from different processes involved in company.

   Predicting Mortality rate of ICU patients using MIMIC data: Google BigQuery, R, Machine Learning

   - 2nd Best project among 28 others in the class.
2) Building Optical Character Recognition : Built OCR from scratch using OpenCV and python: OpenCV, Template Matching, Connected Component Analysis, Feature Extraction
3) Implemented Various Supervised and Unsupervised Machine Algorithms from scratch in Python

INTERNSHIP

Industrial engineer Intern, Tata Advanced Materials Limited, Bangalore, India, December, 2016.
Proposed ways to reduce man hours required for machining the given part.

WORK EXPERIENCE

SAP Security Consultant (SAP ERP), TATA Consultancy Services, **September 2018-August 2021**

- Provide and manage the access of end users in different SAP systems
- Involved in building a SAP role which is responsible for providing access to users for data.
- Help secure the access to the data available in the system by limiting users access to only the data that is needed for them.
- Analyse the data user can access and mitigate or remediate the risk that might occur while accessing any sensitive data.

SKILL SET

- **Languages:** C, Python, R
- **Data Management & Analytics:** SQL
- **Data Science Libraries**: Python,Numpy,SciKit-Learn,Matplotlib,Seaborn
- **Tools:** Eclipse, Jupyter,Excel
- Implementation of various Machine Learning Algorithms(Supervised, Unsupervised, Reinforcement) with R and Python
- Numerical Mathematics for Computing and Data Scientists
- Computer Vison and Image Processing
- Data Visualization , Data Mining

AWARDS/ACHIEVEMENTS

- All India Rank of 842 in Indian Engineering Olympiad.
- Won a Best Team award and 100% customer satisfaction as system engineer in TATA Consultancy Services