VIPUL V SURESH

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WORK EXPERIENCE

Northeastern University | Graduate Teaching Assistant | Boston - USA

Sep 2021 - Dec 2021

Mentor 29 Students with coursework, assignments, and project execution for IE7615 Neural Networks & Deep Learning

Instaversal | AI Product Development Engineer co-op | San Diego – USA (Remote)

Feb 2021 - Aug 2021

- · Conducted user research to identify pain points in manufacturing processes, created MRD to solve quality and performance issues
- Designed cloud architecture for MES, ERP data integration and warehousing to support clients' production operations objectives
- Created user dashboards to drive business decisions for manufacturing machine monitoring, performance & quality management
- Triaged with APAC contract manufacturers to test and validate custom plastic mold designs for large-scale manufacturing readiness
- Developed back-end codebase to provision new industrial sensors and transmit telemetry data from the edge to cloud services

Amazon | Senior Investigations Specialist (Level 4) | Bangalore - India

Oct 2018 - Jun 2019

- Served as SME on auto-annotation software development sprints aimed at manual investigation defect mitigation resulting in a reduction of case handling time by 12%
- Mentored three teams of 12 newly hired investigators to improve performance metrics, paving the way towards zero defects
- Oversaw resource allocation between digital, gift card (2-hour SLA) & retail queue (12-hour SLA) to maintain on-time order approval

Amazon | Transaction Risk Investigator (Level 3) | Bangalore - India

Dec 2016 - Sep 2018

- Analyzed over 70k buyer accounts to identify payment fraud using pattern analysis resulting in overall savings of \$300,000
- Executed root cause analysis deep dives and reported Fraud AI System miss of \$60,000 to the Risk Mining Team
- Served as SME on SOP amendment, QA, & KPI improvement drives with a reduction in process level KPI of 250 basis points

Schneider Electric | Process Improvement Intern | Bangalore – India

Dec 2014 - Jan 201!

- Diagnosed material flow bottlenecks, proposed changes to the Value Stream Map resulting in increased daily output by 4%
- Conducted work-study & ergonomics assessment to advocate scalable changes with a projected increase in Takt time by 17%

LEADERSHIP EXPERIENCE

• Co-founder & Vice-President | Lean Endeavors club, Northeastern University

Apr 2020 - Nov 2021

Organized six Lean workshops and webinars from eminent industry leaders with 110+ student members from NEU

• President & Student Coordinator | Student Council, NIE

May 2015 - May 2016

Led a team of 31 leaders across 14 committees to organize a three-day techno-cultural event with a footfall of 8000+ attendees

ACADEMIC PROJECTS

• Neural Network & Deep Learning: Thermal Image Segmentation

Sep 2020 – Dec 2020

Achieved a binary cross-entropy loss of 0.118 against a benchmark of 0.0172, for segmentation of IR images collected from the university's ADAS dataset trained on the UNet algorithm using Jupyter Notebook

• <u>Database Management for Analytics: MedsDeliver Database</u>

Sep 2021 – Dec 2021

Implementation of SQL and NoSQL databases along with connections to front-end applications such as Python, R, and Tableau

• <u>Digital Product Development: OneSchool App</u>

Sep 2020 - Dec 2020

Led team of four to develop a prototype for a centralized educational platform with a potential market worth \$40M, creating personas for three user segments, drafting PRD and MRD documents, and UI/UX mockups using Balsamiq

• Data Mining: Lit Model

Sep 2019 - Dec 2019

Achieved 77.5% accuracy in the binary classification of fire incidents using Logistic regression trained on the Boston fire dataset

• Project Management: The Monday

Jan 2020 – April 2020

Drafted project organization and implementation plan (IDEFO Model, WBS, Gantt chart, PERT, RACI, and stakeholder matrix) for an AI/ML backed smart home assistant product development at a target budget of \$2.0 Million

SKILLS

- Programming: Python, MATLAB, R, C, JavaScript, Node.JS, MySQL, MongoDB, Cypher, SQLite, REST APIs, GraphQL, Git, HDFS, Spark
- Tools: Tableau, PowerBI, MS office suite (Excel, Project.,), Lucidchart, Azure, VS Code, JIRA, SolidWorks, Catia, Balsamiq
- Concepts: Al/ML, DOE, DFM, IIoT, Lean, Agile, Kanban, Waterfall, Scrum, Six Sigma, Kaizen, NPI, PLM, SDLC, MapReduce

EDUCATION

Master of Science, Industrial Engineering, Northeastern University, Boston, USA

Sep 2019 - Dec 2021

Courses: Product/Project Management, Digital Product Development, Data Mining, Neural Networks & Deep Learning GPA: 3.71/4

Bachelor of Engineering, Industrial & Production Engineering, NIE, Mysuru, India

Sep 2012 - May 2016

Extra-curricular: Member of SAE Baja, Captain of Swim and Archery Team

GPA: 8.67/10