Vishanth Hari Raj

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SUMMARY

Dynamic innovative Data Scientist/SDE with 3+ years' experience at Fortune 500, harnessing Machine Learning/AI to drive innovative solutions for complex business problems. Eager to apply a rich blend of industry and academic knowledge for impactful change.

TECHNICAL SKILLS

Programming Language: R, Python (TensorFlow, NumPy, OpenCV, Pytorch, Sklearn, Keras, SciPy), C/C++, JavaScript, Java, Node.js, SQL.
Tools: R Studio, Git, GitHub/Bitbucket, Jira, Tableau, Excel, Evolven, Splunk, MATLAB, Spark, PowerBI, Docker, Snowflake, AWS/Azure.
Certification: Lean Six Sigma Green Belt CSSE-GB, Azure, Machine Learning using AWS, Spark, DevOps Leader, Product Management.

PROFESSIONAL EXPERIENCE

CITIGROUP (Citi Global Wealth)   Chennai, India
Senior Tech Analyst 2 (Data Scientist) – Artificial Intelligence & Operations Lab   July 2022 - Sept 2023
- Supervised the team of 4 software developers and a product analyst; successfully executed Innovation project focused on the development of **LLM, NLP, Text mining, Predictive Machine Learning models,** Automations and Selenium BOTs, resulting in an impressive annual cost reduction of $250K in Production Support Activities – Production Mgmt.
- Innovation Manager in HNI (High Net-worth Individuals) & Command Center; developed ML equipped dashboards which pro-actively avoided 50+ major incidents, **reduced downtime by 10%, saved ~ $1M, increased KPIs** for Citibank application.
- Awarded *Citi – Gratitude Golden Award, Citi – Copper Award, Bronze Award, Bravo Award* and Citi-Client Obsession Award, and 10+ Applause award for best automation, Innovation works across CGW, Finalists in Citi – Hackathon 2022.

Tech Analyst 1 – Software Development (PBWMT)   July 2021 - July 2022
- **Designed new tech stack** in innovation lab: Angular, NodeJS, python, python-flask & ML model to enhance automation app.
- Streamlined & Implemented new SDLC process (Agile) for internal Citibank applications, saved around **100+ person-hours.**
- Integrated various monitoring tools (Splunk, Evolven, ServiceNow) through APIs to create a data lake for forecasting and analytics, saving $100K in monitoring and saving 300+ man-hours in monitoring and reporting.
- Engineered full stack website (front-end/back-end) for automation activities using Machine Learning algorithms for proactive monitoring, incident forecasting, SRE & SLA, impact analysis dashboards; which reduced incidents by 13%.

INTERNSHIP/PART TIME EXPERIENCE

UNIVERSITY OF CALIFORNIA, LOS ANGELES   Los Angeles, CA
Graduate Research and Teaching Assistant – Software Development   January 2024- Present
- Creating Software & Libraries (*click here*) in python for Chi-Test, Relative risk, Hypothesis Testing, Linear Regression, bootstrapping, bagging & statistical techniques for Biosciences to students, professor and research scientist.

JOHN MOLSON SCHOOL OF BUSINESS, CONCORDIA UNIVERSITY   Montreal, Canada
MITACS Globalink Research Intern'20 – Software Development   April 2020 - July 2020
- Designed a non-linear programming assortment model and optimization techniques using various greedy algorithms in C++ to predict market demand, improve supply chain and can **maximize profit by 6%** using the model, for Walmart Canada.

VEVOLVE (STARTUP)   Bengaluru, India
Machine Learning Engineer Intern   May 2020 - Aug 2020
- Collaborated in a team for an R&D project and developed machine learning models (web scrapping, texting mining) in cybersecurity to evaluate the vulnerabilities of the PHP application, generating revenue share of $30K from this project.

IIT MADRAS (INDIAN INSTITUTE OF TECHNOLOGY, MADRAS)   Chennai, India
Research Associate   May 2019 - Jul 2019
- Developed a *MATLAB model* to perform data analytics (data cleaning, data processing, and data visualization) to detect abnormalities for the development of a new Gasoline Direct Injection engine in a single cylinder in NCCRD Lab.

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES   Los Angeles, CA
Master of Science in Business Analytics (MSBA)   September 2023- December 2024
- **Courses**: Python, Statistics, Optimization, SQL, Predictive & Competitive, Market Analytics, A/B Testing, Machine Learning.
- **Leadership:** Vice President, Social Network and Marketing – Student Government Body

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI   Trichy, India
Bachelor of Technology in Industrial Engineering /Minor in Computer Science (CGPA: 9.1/10)   July 2017 - June 2021
- **Awards**: Awarded Institute Merit Rank Award for securing the **Top 3 ranks** in the Department
- **Leadership:** Co-founder of Ignite Club, Student Council Member, Class Rep, Head of Events Team

PROJECTS/PUBLICATIONS

Image recognition-based Deep learning model for automated defect detection (*click here*)   December 2019- April 2020
Collaborated with Hinduja Foundries to develop Machine Learning Model achieving 90% accuracy eliminating manual inspection.