

RICHA RANJAN

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EDUCATION

Vellore Institute of Technology, Vellore, India

2016 – 2020

Bachelor of Technology in Computer Science and Engineering

CGPA 9.11/10

PROJECTS

Energy Consumption Forecasting in Delhi Region Using ARIMA Model, Vellore Institute of Technology

Apr' 19

- Designed forecasting trends using the ARIMA model to predict the energy consumption pattern in Delhi during summer.
- Compared and contrasted the efficiency of the ARIMA model with that of other regression models; The ARIMA model was found to be the most accurate, with a MAPE of 6.63%.

Sampling and Analysis of waste generated on campus using SPSS, Vellore Institute of Technology

Nov' 19

- Led a team of 6 to survey the sources of waste generation on campus; Designed five hypotheses based on the survey and performed Chi-Square tests to validate the hypotheses; Conducted poster presentations to spread awareness on campus.

PROFESSIONAL EXPERIENCE

Software Engineer, Shell India Markets Private Limited, Bengaluru, India

Sept' 20 - Present

- Led a team of 3; Planned, Designed, and Implemented test strategies; Ensured 95%+ defect removal efficiency; Performed Change and Release management as a part of a multinational team, "Workday DevOps."
- Up-skilled and Cross-skilled by learning data anonymization using Informatica TDM in a short span and contributed to the Workday Data Anonymization project; Implemented the project with 99.2% anonymization accuracy.
- Redesigned the TDM dictionaries & anonymization logics to optimize the workflow, saving \$34,800/ year.
- Automated the change management process, leading to annual savings of ~265 hrs and improving compliance by 70%.

Student Trainee, Mercedes-Benz Research and Development India, Bengaluru, India

Dec '19 - May '20

- Built a custom real-time monitoring dashboard using Tableau to monitor instances located in 108 countries across the globe, enhancing overall monitoring efficiency threefold and reducing instance downtime.
- Researched and implemented an optimized design of the deployment pipeline using Azure DevOps, Docker, and Kubernetes; Reduced the overall package formation and deployment time from 10 min to a few seconds.

Summer Trainee, Central Mine Planning & Design Institute, Ranchi, India

May '18 - June '18

- Built a Duty Management web application from scratch to manage shift workers; The web application saved 3+ hours of manual effort per week.

ACHIEVEMENTS

- Awarded the GF IDT & IRM VP CIO AWARD** for Q2 2022 in the "Maximize our Performance" category at Shell for contributing to the Self-ID and Employee Verification Letter projects; The Self-ID project improved the confidentiality of diversity & inclusion data and The EVL project optimized the letter generation process from 2-3 days to a few seconds.
- Shortlisted for Pre-Incubation** among 83 teams at Hacker Tech'18 for designing a mobile application for teaching Dyslexic Children; Received incubation support and funding of Rs. 1 Lakh under the Student Startup Venture Initiative.
- Awarded Best Design Award** among 100+ teams at DevSpace'18 for designing "Sankshep," a web application that converts audio to text in real time and generates notes automatically using deep learning.
- Awarded Best UI/UX Award** amongst 30+ teams at the Women Techies Hackathon for designing the UI of a mobile application called FemVita, a counseling platform for women victims of depression & harassment.

VOLUNTEER & CO-CURRICULAR ACTIVITIES

Manager, Events and Cultural Committee, Riviera

Dec'17 - Feb'18

- Organized Aagaz'18, a live music and dance concert with national-level performers and 2000+ attendees.
- Organized Schooler Coaster '18; Increased footfall by 100% and managed 700+ participants.

Volunteer, Little Aryabhatta Foundation

Sept'20 - June'22

- Volunteered to tutor underprivileged children for ~30hrs online during the COVID-19 pandemic.
- Organized Diwali celebration for 68 children at a local orphanage; Arranged meals, decorations, and fireworks.

Volunteer, Swayamsevi Sanstha

Nov'20

- Volunteered for the Tree Plantation Campaign and planted 50 trees with medicinal benefits.

SKILLS

Computer: Python, Data Visualisation: NumPy, Pandas, SeaBorn, Tableau & Excel, JAVA, SQL, HTML, CSS, JS, PHP

Language: English (Fluent), Hindi (Native Speaker), and Spanish