

Akshay Jain

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SUMMARY

Experienced Lead Software Developer with 3+ years in telecommunication industry with strong background in software development, Web Development and Machine Learning, heading up development through agile direction and careful delegation, hands-on experience to complete extremely difficult projects, bringing both cutting-edge programming expertise and exceptional interpersonal skills to leadership roles

EDUCATION

Master of Computer Science

University of California, Irvine- Irvine, California, GPA 3.90/4.00

December 2022

Bachelors of Technology, Electronics and Communication Engineering

Maulana Azad National Institute of Technology- Bhopal, India , GPA 3.51/4.00

May 2018

SKILLS

Programming Languages : C, C++, Java, Python, HTML, CSS, JavaScript, PHP, Bash, SQL, React, TypeScript

Tools & Techniques: MongoDB, Automation Anywhere, MySQL, XML, InfluxDB, Grafana, Elasticsearch, Machine Learning and Deep Learning Advance Techniques, Android Studio, Eclipse, Kibana, LogStash, Selenium, Appium, Postman, BrowserStack, Espresso, XCUITest, Agile and Waterfall Model.

EXPERIENCE

Lead RAN Operations, Bharti Airtel Limited, Gurgaon, India

June 2018 – September 2021

- Chaired 10+ new projects through software cycle by initiating culture of tool automation in daily reports using python's Selenium and other libraries, saving up to 90% of time, increasing efficiency up to 99%
- Implemented database management software, analytics and interactive visualization applications (Grafana and Elasticsearch) and Robotic process tools (Automation Anywhere) to create a better monitoring system, resulting in an increase of 6.0 points in Customer Satisfaction Index
- Pioneered ideation and implementation to predict electricity consumption on shared telecom towers using concepts of ML and DL, leading to yearly savings of USD 3.2 million
- Streamlined deployment of new networking capabilities, designing implementation plans to diminish network disruptions and expedite upgrade rollouts to serve 300 million+ customers
- Developed a website using PHP, HTML, CSS and MySQL to keep track of user logs, providing easy access to all softwares in one location

PROJECTS

Microservices with NodeJS and React,

- Build, deploy, and scale an E-Commerce app using Microservices built with Node, React, Docker and Kubernetes
- Deploy a multi-service app to the cloud with Docker and Kubernetes, Communicate data between services using a lightning-fast event bus, Communicate data between services using a lightning-fast event bus, Write comprehensive tests to ensure each service works as designed
- Architect large, scalable apps using a collection of microservices, built a Server-Side Rendered React App to render data from your microservices, share reusable code between multiple Express servers using custom NPM packages

Recurrent Neural Network Based Music Generation, University of California at Irvine

- Trained different models built using different sorts of recurrent layers like RNNs, GRUs, and LSTMs on this data, while eliciting the future of automatic music generation | [LINK](#)

Analysis of Treatment Design, University of California at Los Angeles

- Evaluated effectiveness of experimental treatment designs and research methods based on medical data for behavioral patterns in children undergoing psychoanalysis
- Prototyped novel approach, resulting in a 50% reduction in time spent on choosing treatment path utilizing clustering algorithms based on previous patient responses

Detecting Cancerous Cells using Data Augmentation, Maulana Azad National Institute of Technology, Bhopal

- Collaborated on detecting cancerous cells using data augmentation in microscopic images of cell samples
- Planned and implemented quantitative and qualitative advanced analysis found using data augmentation and deep learning concepts, downsizing need of microscopic data by 1/1000 while providing same accuracy of 98.6% | [LINK](#)

Fake News Detection, Maulana Azad National Institute of Technology, Bhopal

- Designed a classification problem to detect misleading information on Facebook posts, leveraging Facebook's Graph API and applied NLP concepts showing an improvement over previous models and an accuracy of over 95% on real time data
- Devised a method for compiling a database of all active events from authorized sources using BeautifulSoup library in order to generate advanced tags | [LINK](#)

Smart Wheel Chair, Maulana Azad National Institute of Technology, Bhopal

- Developed a prototype operating with real-time images for automatic movement. Installed voice commands and gesture control to ensure precise movement and emergency control takeover, as result, risk of an accident was reduced by 75%