Vishal Kasa

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EDUCATION

MIT School of Engineering - Pune, India *Jul 2017 – Jul 2021*
B.Tech, Computer Science Specialization in Intelligence System and Analytics CGPA : 9.0

CLG SR SEC SCHOOL – Sumerpur, India *Jul 2016 – Jul 2017*
Rajasthan Board of Secondary Education (RBSE) Percentage: 82.60

MODERN DEFENCE SR SEC SCHOOL – Shivganj, India *Jul 2014 – Jul 2015*
Rajasthan Board of Secondary Education (RBSE) Percentage: 77.83

SKILLS

- **Languages:** Python, C++, Git, C, Appium, JavaScript
- **Packages:** Scikit-Learn, Pandas, NumPy, Matplotlib
- **Machine Learning:** ML algorithms, Predictive analysis, Data visualization, Data analytics.
- **Tools:** Appium Studio, Perfecto, Power Virtual Agent, Axe-dev-Tools, Accessibility Insights, xUnit (Beginner), Azure, QnA Maker
- **Frameworks:** Microsoft Bot Framework, React Native.
- **Database:** MySQL

Work Experience

Persistent Systems – Pune, India *July 2021 - Present*
Software Engineer

- Worked closely with the team to create a clone of mobile application (React Native) to be accessible in the web portal.
- Written custom rules to check react native application accessibility errors with the help of eslint-plugin-a11y, Axe-dev- tools and Accessibility Insights.
- Worked on Accessibility Testing with azure DevOps pipeline.
- Also worked with Appium, perfecto and Visual Studio App Center for Automated testing of react native application.
- Created a chat bot on MS Teams with the help of power virtual agent and power automate.
- Worked on xUnit test cases.
- Experience of working on react native app.
- Build a recommendation system.

INTERNSHIPS

Persistent Systems – Pune, India *Jan 2021 – Jul 2021*
Academic Intern

- Learning about team management by engaging in competitive team activities
- Improve communication and business skills. Also,
- Learned basics of SQL, Git, HTML, CSS, JavaScript, ReactJs.
- Created urban cap clone website.

Tech Mahindra – Pune, India *Dec 2020 – Jul 2021*
Student Trainee

- Worked on Crop Selection System -Market Analysis and Research a lot in the field of agriculture and learn the importance of Scientific and weather parameters.

- Created Crop Price prediction system with the help of time series analysis.
- Understand and used LSTM algorithm.

Mass Technologies – Pune, India   *Aug 2020 – Sept 2020*
Machine Learning Intern

- Data Visualization and Analysis.
- Integrated all models together to work parallelly.
- Learned machine learning algorithms and applied them on various datasets.

PROJECTS

10 Days of Machine Learning   *June 2020*

- Data Visualization, Comparison, and analysis of COVID19, Titanic Dataset.
- Applied feature engineering, data pre-processing, data visualization
- Applied different regression and classification algorithm on various dataset
- Used Elbow method on Personalize Expedia Hotel Searches - ICDM 2013 dataset to find number of cluster and applied K-Means algorithm on it.
- Used Pretrained model of Inception V3 for Transfer learning on Cat vs Dog dataset. Got test accuracy about 97%.
- Project Link: https://github.com/vishalkasa/10-Days-ML-Challenge

Crop Price Prediction System   *Dec 2020 – Jul 2021*

- In this project I researched about Market Analysis and search a lot in the field of agriculture and learn the importance of Scientific and weather parameters
- Created Crop Price prediction system with the help of time series analysis
- It's Team project conducted by Tech Mahindra Team
- Project consist of a lot of analysis and clear conclusions
- Used LSTM algorithm for Time series Analysis

Feature Based Analytical Crop Recommendation System   *January 2020*

- We used different features for the recommendation of crop or best fit crop like climate change, soil, temperature, humidity, rainfall etc.
- We used mathematical formulation for feature analysis.
- It will recommend the best crop for given conditions
- Project consist of web interface for deployment
- Project Demo Video: https://drive.google.com/file/d/1JxAjLxrhlqJVFPwA68n8pDVfjjFiqa_w/view

ACHIEVEMENTS

- Got shortlisted to represent MIT ADT University at the National Level of the National Innovation Contest hosted by MHRD innovation Cell (MIC), Govt of India and got a chance to represent the idea at pre-incubation by Atal Incubation Center at MIT-ADT University, Pune.

- Published Research paper in E3S Web Conf. Volume 170, 2020 6th International Conference on Energy and City of the Future (EVF'2019)
  Paper Title: Redefining smartness in township with Internet of Things & Artificial Intelligence: Dholera city

Certificates

- Data Analytics using Python by Voice collaboration IIT Kharagpur   July 2020

- Machine Learning by Stanford University on Coursera   December 2019