Amit Dethe

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(+91) 7738388692   LinkedIn
                                                                                                      GitHub

Education

Manipal University Jaipur   Jaipur, Rajasthan
Bachelor of Technology in *Computer Science and Engineering*   May 2023
Minor Specialization in *Data Science*
CGPA: 9.04

Experience

Dell Technologies   Bangalore, Karnataka
Summer Intern (DevOps / WebDev)   June – Aug 2022
- Developed a CI/CD pipeline on GitLab for a .NetCore API being developed by the team. The pipeline covered building the application, unit testing, SonarQube scan, CheckMarx scan, X-Ray scan, BlackDuck scan and deployment of the application on Pivotal Cloud Foundry.
- Developed a dashboard using React.js that uses Pivotal Cloud Foundry API to display and manipulate the information related to applications hosted on PCF.

Triumb Infotech Pvt. Ltd.   Jaipur, Rajasthan
Web Development Intern   June – Aug 2021
- Developed the Node.js back-end of the company website which includes authentication and order management.
- Contributed to the development of React.js front-end of the company website and fixed UI bugs in the web app.

Increlo Inc.   Remote
Freelance Web Developer   July – Aug 2021
Developed the Node.js backend of a POS progressive web application which includes:
- View based Advertisement system.
- Inventory Management system.
- Order Management system.
- Dedicated Admin, Vendor and Customer portals.

Skills

Technology:
- Machine Learning and Data Science
- Web Development (MERN Stack, Django)
- Game Development (Unity3D, C#)
- JavaScript
- Python

Projects

Detection of Pleural Effusion on Chest X-Ray

- Developed a model that worked on top of InceptionV3, trained on Stanford ML Group's CheXPert dataset to classify Chest X-Ray images that show the presence of Pleural Effusion.
- The model achieved a validation accuracy of 93%.
- This research also included a comparative study that compared models that worked on top of ResNet50 and DenseNet121, where InceptionV3 outperformed both.
- The model's performance was comparable to the performance of the state-of-the-art model in terms of accuracy and outperformed the state-of-the-art model in terms of time due to its lightweight nature.

California House Price Prediction Tool

https://github.com/redsaucepasta/CaliforniaHousePricePrediction

A tool that predicts California House Prices. This tool is based on a multivariable Linear Regression model created by me and trained using SKlearn Library's California housing dataset.

- On a given set of inputs such as median income of the block, house age, average number of rooms, population of the block, etc. the tool can predict the cost of a house.
- The cost of the house is predicted with certain degree of confidence and a range.

FoodEx

https://foodex-app.herokuapp.com

A web app that aims to make the purchase and delivery of food more efficient for the students and restaurants of Manipal University Jaipur.

- Separate dedicated portals for the customer and restaurant.
- Secure authentication systems for customer as well as restaurant.
- Made using Node.js, Express.js and EJS.
- Smooth, user-friendly and mobile optimized UI, robust Node.js back-end and NoSQL database.

Leadership and Activities

Head of Operations   June 2020 – May 2021

Randomize();

As the Head of Operations of Randomize(); , the official CSE club of Manipal University Jaipur, I was a key part of the organization and execution of various technical and non-technical events.

Game Development Mentor   June 2020 – May 2021

Randomize();

Mentored members of the club in the field of game development as a part of the club's mentorship program. I covered all the fundamentals of C# programming language and 3D game development on Unity3D by developing an entire project from scratch.

Certifications

Introduction to Tensorflow for Artificial Intelligence, Machine Learning,   July 2021
and Deep Learning, DeepLearning.Ai, Coursera

https://www.coursera.org/account/accomplishments/certificate/XYCD7G949JDY