

Omkar Anustoop

Software Engineer – Paytm

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EDUCATION

Indian Institute of Technology Patna

July 2018 - May 2022

B.Tech in Electrical Engineering

CPI: 8.31/10

- **Key Academic Courses:** Programming and Data Structures in C, Data Science, Python Programming, Linear Algebra, Partial Differential Equations, Probability Theory and Random Processes, Complex Analysis, VLSI Design, Control Systems
- **MOOCs:** Data Structures, Algorithmic Toolbox, Machine Learning, CNNs in Tensorflow, NLP in Tensorflow
- **Programming Languages:** C, C++, C#, Python, Java, JavaScript, SQL, HTML
- **Frameworks:** Node.js, Express.js, ASP.NET, Tensorflow, PySpark, Kubernetes

WORK EXPERIENCE

Software Engineer

July 2022 - Present

Paytm

- Generated training data and trained classifier model for data parser project to group related data items into segregated clusters. Built FastAPI app which returns model output as response object. Containerized the app using docker and hosted it to kubernetes cluster.
- Performed data exploration and analysis using PySpark for cylinder reorder optimization project. Built prediction models to predict which customers are likely to book a cylinder in a given window and on which day propensity to book is highest. Percentage of captured customers improved to 51% from 24%.
- Worked on internal data tracking and visualization application, added new features along with making updates on existing features to improve tracking efficiency and data visualization. Added new method of launching dashboard using docker to internal documentation.

Software Engineer Intern

June 2021 - July 2021

Wipro Limited

- Worked with Portfolio Management team on ways to achieve better Workflow Automation. Implemented functions in Core Python to automate basic functionalities of an application.
- Built the Login and Registration Portal of an Application using ASP.NET MVC Framework in C#. Implemented Role Based Authentication to provide access for performing certain actions to only specific type of Users.

PROJECTS

Breast Mass Localization and Segmentation in Mammogram Images using Deep Learning

Aug '21 - May '22

Bachelor's Thesis under guidance of: Dr. Rajib Kumar Jha, IIT Patna

- Trained YOLOv3-tiny model for mass localization which takes input mammogram image as input and predicts bounding box coordinates as output. The best performing set of hyper parameters were chosen through experimentation.
- Trained U-Net model for mass segmentation which takes mammogram image as input and predicts the mass mask as output.

Spam Content Predictor for Fake News Detection

May 2021 - June 2021

Django and React JS Web Application to predict Spam Content

- Experimented on Deep-Learning models such as Attention Based CNNs with Word2Vec/Glove Embedding, Simple CNNs with Word2Vec/Glove Embedding to find the combination which gives optimal result.
- Built a Web Application using Django for Backend and React JS for Front-End where the JavaScript Application takes user input and makes a POST request to Django API End-Point which fetches the result predicted on the input using the weights of the model trained. The application was deployed on Heroku.

Reddit Flair Detector Web Application

April 2020

Flask Web Application to Predict Flair of Reddit India Posts

- Collected Reddit India data using Reddit Data Crawling Scripts, cleaned the data and made a labelled dataset. Trained Machine Learning Models such as Random Forest, Gradient Boosting based Trees on the collected data to get optimal result.
- Built a Web Application using Flask which takes URL of Reddit-India Post as Input and predicts Flair as output using the model.

PROGRAMMING PROFILE

- **ICPC Regionals** - ICPC Amritapuri Regionalist as a part of team Hash_include18
- **Google Kick Start** - Round C 2021 (Secured Global Rank 1253 among over 10k Participants worldwide)
- **Codeforces** - codeforces.com/profile/Anustoop99 (Secured Global Rank 621 in Div 3 Round 725)
- **Codechef** - codechef.com/users/anustoop_99 (Secured Global Rank 482 in July Cook-Off 2021 Div 2)
- **Hackerrank** - hackerrank.com/oanustoop1 (Certified in Problem Solving and Python)
- **Leetcode** - leetcode.com/Anustoop99/
- **AtCoder** - atcoder.jp/users/anustoop99