Kadam Parikh

Machine Learning Engineer

Individual with exceptional research skills and ability to communicate complex concepts across business units. With 3.5 years experience in the field, I have worked on many projects as Software Engineer, Technical Lead, and Machine Learning Engineer.

Key Projects

AI Powered Resume Screener

Managed the research & development of a system, built for large talent acquisition firms, that eases the work of talent acquisition specialists by scoring every resume in the system for a given job description. It also helps the recruiter understand why the selected candidates are the best match for their job.

Entropy

Leading the development of Entropy, an algorithmic trading platform for cryptocurrency. Planning the features of initial release by doing necessary research and understanding complexities of tasks; and guiding the team in the right direction.

GMR Energy Market Price Prediction

Built a system that is capable of predicting the price at which energy will be traded at Indian Energy Exchange. Analyzed the time series data from past 3 years and built an ensemble of 3 different model architectures that is able to provide the best accuracy of 83% on average with a tolerance of 10% and maximum being 93%.

Sanskrit OCR

Built an OCR system for Handwritten Ancient Indian Language (Sanskrit) from the 1000s. The data was highly complex in nature with no spacing and punctuations, with manual corrections, and designs within pages. The system encompasses four different modules which identifies lines, OCRs a line, combines and orders the lines and performs text correction.

Fraud Detection in Bitcoin Casino

Bitcoin.com has its official online casinos where people can play using cryptocurrencies. Built a fraud detection algorithm, using unsupervised learning, that is capable of monitoring withdrawals from the casino and raising alerts when potential fraudulent activity is detected.

H+Tree

H+Tree is research work which aims at optimizing the internal B+Tree module of database storage systems in order to have a new database storage system which is 2x faster and more storage efficient.

BiDAF (Final Year Project)
Link: https://github.com/ParikhKadam/bidaf-keras
Implemented the research paper Bidirectional Attention Flow for Machine Comprehension in Keras from scratch. The project aims at extracting answers for a specific question from a given article.

Contact Details

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Tech Stack

Languages & Runtimes
Python, C++, Typescript, Java, Node.js

Libraries
Numpy, Pandas, Matplotlib, Seaborn, Keras, Scipy, Scikit Learn, Tensorflow 2, PyTorch, NLTK, OpenCV

Frameworks
Django REST Framework, Django, Flask, FastAPI, Selenium, Vue.js, React

Tools
Git, Docker, Docker Compose, Jira, Trello, PlanningPoker, Kubernetes, RabbitMQ, Redis

Databases
MySQL, PostgreSQL, MongoDB

Professional Skills

Exposure to most of the ML, DL, CV and NLP algorithms and models, Regularization Techniques, Ensembles, and Time Series Forecasting

Probability and Statistics

Reading and Implementing Research Papers

Intuitive Understanding of Advanced Mathematics

Generating Valuable Insights from Data and Data Modelling

Work Experience

Lead Software Engineer
F(x) Data Labs Pvt Ltd
December 2021 - Present

Key Achievements:
- Optimized the project workflows at the workplace.
- Built an AI based.resume screener for large talent acquisition teams.
- Led teams of size 20 on 3 different projects simultaneously.
- Learning project management skills.

Key Responsibilities:
- Conduct effective business meetings with the prospects.
- Lead multiple projects simultaneously but effectively, since inception.
- Divide the team's workload fairly after clarifying roles and setting expectations.
- Conduct one-to-ones to keep the team members motivated.
- Prioritize, delegate and evaluate work..

Software Engineer
F(x) Data Labs Pvt Ltd
March 2020 - November 2021

Key Achievements:
- Leading the development and planning of an algorithmic trading platform for cryptocurrency.
- Built an accurate Handwritten Ancient Sanskrit Text Recognition System for old texts from the 1000s.
- Developed an unsupervised algorithm using Random Forests to detect frauds in Bitcoin Games Casino.
- Boosted the accuracy of a time series based Oil Well Anomaly Detection system by 10%.

Key Responsibilities:
- Conduct prior research to properly plan projects.
- Developing a roadmap for implementation of complex projects to plan an incremental release cycle.
- Provide leadership and guidance to teams and take responsibility for the results of teamwork.
- Building and optimizing ML models for highly complex tasks.
- Gain insights on issues with data/models, perform experiments and provide solutions.

Associate Software Engineer
F(x) Data Labs Pvt Ltd
February 2019 - February 2020

Key Achievements:
- Developed H+Tree, a 2x faster data structure as compared to B+Tree.
- Implemented a research paper based on Knowledge Graphs and Object Detection.
- Mentored new team members at our workplace in Machine Learning.

Experience with Agile Software Development practices

Experience developing Sound and Secure RESTful APIs

Soft Skills

Leadership & Management

Excellent in verbal and written communication

Problem solving and critical thinking

Clearly communicate complex information

Time management

Fast paced learning ability

Achievements

Found two different security flaws in the Admin Panel of GTU Exams website (listed in OWASP Top 10)

Contributed in the research and development of H+Tree

Courses

CS231n - Convolutional Neural Networks for Visual Recognition by Justin Johnson
Stanford University

CS224d - Deep Learning for Natural Language Processing
Stanford University

Project Management Course
Udemy

TinyML Program
HarvardX

Udemy - Blockchain A-Z™ Learn How To Build Your First Blockchain
Udemy

Key Responsibilities:
- Software development activities such as design, coding, debugging, and unit testing for various components.
- Develop custom data models and algorithms with a view to improve the legacy systems.
- Completing the assigned tasks within the constraints of scope, quality, time and cost.
- Participate in backlog estimation & project planning activities.
- Proactively communicate and collaborate with other team members.

Education

Bachelor of Engineering - Computer Engineering

L. D. College of Engineering
2015 - 2019
CGPA: 8.76
Key Achievements:
- Build an AI based Question Answering system which is capable of extracting answers to a given question from a given article.
- Learned the concepts of Machine Learning and Deep Learning within a very short span of time.

Fields of Interest

Machine Learning / Deep Learning

Blockchain

Cyber Security

TinyML

Project Management

Business Administration & Management