Kartik Vyas

B.Tech. Undergrad Computer Science | IIT Jodhpur Senior Tech Associate | Morgan Stanley

Skills

Competence

- Competitive Programming
- Mobile App DevelopmentFull Stack Software
- Development
- Machine Learning

Proficient

- Java C C++ Spring Boot
- Apache Camel
 Spring JDBC

Familiar

- Python HTML CSS
- JavaScript TypeScript
- AWS Lambda AWS S3 Git
- DynamoDB SQL Docker
- Kafka Zookeeper

Frameworks

- Angular Bootstrap Flask
- React Native Keras Pytorch

Others

- Content Writing
- Public Speaking

Education

IIT Jodhpur | B.Tech. - CSE 2022 | CGPA:8.23/10

Blue Heaven Vidyalaya 2018 | XII | Percentage: 88.0%

Seedling Modern High School 2016 | X | CGPA: 9.8

Relevant Courses

- Computer Programming
- Discrete Mathematics
- Data Structures and Algorithms
- Object Oriented Analysis and Design
- Software Engineering
- Theory of Computation
- Operating Systems
- Algorithm Design and Analysis
- Artificial Intelligence
- Database Systems
- Computer Networks
- Linear Algebra and Calculus
 Drobability Statistics and
- Probability, Statistics and Random Processes

Achievements

- JEE Advanced 2018 2929 Rank [top 0.2%]
- Student Guide | Counselling Services | Jul 2019 - May 2020 Mentored 9 students
- CodeForces | Expert | 1714
- CodeChef | **4 Stars** | 1917
- CodeForces Global Round 10 | Rank 732/11678

Experience

Morgan Stanley | Senior Technology Associate | Dec 2022 - Ongoing Fixed Income | Mar 2023 - Ongoing

- Solely developed Orchestration Layer between UI and backend apps
- Gathered requirements from business and designed 20+ REST APIs
- Implemented services to fetch data for order creation and order status applications using Java and Apache Camel, reducing latency by 25%
- Provided KTs and helped team in Production deployment

Unit Investment Trust | Technology Associate | Dec 2022 - Feb 2023

- Developed a synchronization tool to align the legacy and modern databases and enhanced data consistency by 5%
- Built data services in UIT modern platforms using Spring JDBC
- Followed **agile practices**, part of design and business domain discussions and gave firm-wide presentation

Gen Al Hackathon | Jul 2023 - Aug 2023

- Devised a tool using **Python** and **OpenAI** that can provide solutions to a technical or business problem in **textual and diagram** formats
- Integrated the tool with Firm's inhouse architecture storehouse, boosting innovation by improving existing architectural blueprints

Morgan Stanley | Technology Analyst | Aug 2022 - Nov 2022

- Part of an intensive **3 month training program** to learn about major technologies used in MS and tech industry
- Created a simulation of Trading application involving use of MQs, CPS, REST APIs along with Angular based UI to perform trades, achieving top 10% performance in project simulations among peers

Morgan Stanley | Summer Intern | May 2021 - Jul 2021

- Built greenfield web application used by 800+ Financial Advisors
- Enhanced operational efficiency by 15% & improved client engagement
- Made responsive, compact, easy to use frontend screens using Angular
- Integrated Stored Procedures and APIs via **Spring Boot** & **Spring JDBC**, streamlining data processing and reducing processing time by **30%**

Projects

SEMANTIC PLAGIARISM | <u>GitHub</u> | <u>Demo</u>

B.Tech Project | Nov 2020 - Apr 2021 | Mentor: Dr. Romi Banerjee

- Formulated a comprehensive plagiarism detection tool by integrating semantic analysis capabilities, improving accuracy by 5%
- Generated binary classification, multi-class classification and regression models using Pytorch and Keras
- Launched a React and Flask based webpage for user friendly access

AUTOMATIC ANSWER GRADER | GitHub | Demo

- B.Tech Project | Jan 2020 Apr 2020 | Mentor: Dr. Anand Mishra
- Developed grading algorithms aided by OpenCV library achieving 97% accuracy
- Engineered robust backend using Flask API and hosted it on AWS EC2
- Built a cross platform mobile app using React Native to grade OMRs

VID - STREAM AND DATABASE | <u>GitHub</u> | <u>Demo</u>

Course Project for Computer Networks and Database Systems | Dec 2020 - Feb 2021 | Mentors: Dr. Ravi Bhandari and Dr. Romi Banerjee

- Architected a real time video streaming over a local network and saving streamed video on devices which can be shared later.
- Conditional Peer to Peer direct File transfer using Python Sockets

TIME SERIES ANALYSIS | GitHub | Report

- B.Tech Project | Jul 2021 Dec 2021 | Mentor: Dr. Gaurav Harit
- Anamoly Detection using LSTM Autoencoder model with 95% accuracy
- Single and Multi step Time Series Prediction using LSTM and CNN-LSTM Encoder Decoder models

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