

Aman Nagarkar

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WORK EXPERIENCE

Software Engineering Intern at KLA Corporation

Jun 2022 – Sep 2022

- Architected a recommendation system for optimizing internal search engines, leveraging company's knowledge-base with a prediction accuracy of 0.52 which improved click-through rate from 29% to 55%.
- Developed an automated ETL pipeline to pre-process incoming data into the SQL database, streamlining data processing efficiency by eliminating 200 hours of manual data tagging.
- Deployed system as a microservice to be consumed by the frontend, displaying key metrics as interactive visualizations.

Software Engineer - 2 at Vint Media

Feb 2019 – Jul 2021

- Led 3-member team deliver high-quality software products for 10 business partners, while working with other cross functional teams, ensuring the timely delivery of software systems.
- Conducted discussions with clients to gather functional requirements. Employed information architecture, and optimized workflows to increase revenue by 15% while reducing operational costs by 25%.
- Upgraded codebase from Python2 to Python3 improving code readability, and maintainability, reducing security vulnerabilities by 60%.

Software Engineer Intern at Accurate Risk Managers

Jun 2018 – Sep 2018

- Collaborated with data scientists to train machine learning models utilizing the company database for risk assessment of new cases, enabling risk mitigation, and increasing fraud detection by 20%.
- Improved risk assessment with a machine learning model that predicted cases with an F1 score of 0.82.

Data Analyst Intern at Vasu Infosec

Jan 2018 – Mar 2018

- Conducted exploratory data analysis to identify trends and patterns in the consumer sales data resulting in increasing revenue by 7% by identifying market segments and target customers for the company's products.

EDUCATION

Santa Clara University

Santa Clara, CA

Master of Science in Computer Science and Engineering

Sep 2021 – Jun 2023

Relevant Courses: Distributed Systems, Big Data, Object Oriented Analysis and Design Programming, Deep Learning

Savitribai Phule Pune University

Pune, IN

Bachelor of Engineering in Computer Science

Aug 2015 – Jul 2019

PERSONAL PROJECTS

Waiterless Restaurant System with audio command | *Android Studio, Java, Google Cloud Platform, Angular, SQLite, MongoDB*

- Built a full stack android application using GCP, v2 DialogFlow agent and Firebase to build a virtual assistant with speech recognition. Implemented a real-time notification system using Firebase Cloud Messaging.

Recommendation System for News using Topic Modelling | *React.js, Node.js, TensorFlow, BERTopic, NLTK, Docker*

- Incorporated a custom tokenizer to pre-process the text data and improve the performance of the BERTopic model.
- Trained a BERTopic model on text data to implement a recommendation system with a coherence score of 68%

Pub-Sub System for Financial Data Analysis and Prediction | *Python, Go, AWS (SNS, SQS), PostgreSQL, Pythorvb*

- Designed and developed a distributed pub-sub system to handle real-time financial data streams with Go.
- Utilized Gin to create restful endpoints. Implemented a LSTM for time-series forecasting on stock prices.

SKILLS

Programming Languages: Java, Python, JavaScript, Go, C++.

Cloud Technologies: Google Cloud Platform (GCE, GCS, Firebase), Amazon Web Services (EC2, S3, Lambda, DynamoDB)

Other Technologies: Docker, Kubernetes, SQL(Postgres), NoSQL(Cassandra, MongoDB), Kafka, gRPC, Protobuf, Tensorflow, FastAPI, Pytorch