Vishal Kumar

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Github | linkedin

Education

Degree/Certificate	Institute/Board	CGPA	Year
Btech.	Guru Gobind Singh Indraprastha University	8.7	2020-2024
Senior Secondary	CBSE Board	9.3	2020
Secondary	CBSE Board	9.6	2018

Experience

- **Punjab National Bank** *June 2024 - September2024*
  Software Developer Intern
  – *In my role as a Software Developer Intern at Punjab National Bank (PNB), a prestigious government-owned financial institution, I was actively engaged in the process of developing and enhancing digital banking solutions. I was responsible for collaborating with senior developers, developing the modern banking interfaces and developing and testing software applications.*
- **LmdMax** *Aug. 2023 - Jan. 2024*
  Operational Analyst Intern
  – *In my previous role as an Operational Analyst intern, I was actively engaged in the process of optimizing operational efficiency and streamlining workflows. I was responsible for collecting and analyzing data, allowing me to identify areas for improvement and provide data-driven insights to support decision-making.*

Research Publications

- **Generative A.I. Integration using APIs**,
  – Authored a review paper under the guidance of Dr. Sangeeta and Dr. Sitender at Maharaja Surajmal Institute of Technology; Submitted for publication in the college journal Satyam on 2nd November 2023; Explores the synergy between Generative A.I. and APIs, providing insights and practical examples.

Projects

- **Taxi Demand Prediction**
  Python, Dask, ARIMA, LSTM, Data Analysis, Feature Engineering, Time Series Forecasting Github
  – Developed a machine learning model to predict taxi demand in New York City, helping drivers maximize their revenue by positioning themselves in high-demand areas. Conducted extensive exploratory data analysis (EDA) and feature engineering, followed by data aggregation to prepare the dataset for time series forecasting. Implemented ARIMA and LSTM models to provide real-time demand predictions, leveraging data from 2017 and 2018. The project enhanced understanding of data science techniques and improved taxi utilization by reducing idle times and wait periods.
- **Malaria Classification System**
  Python, Machine Learning, Deep Learning, SciKit, Data Processing and Augmentation Github
  – Developed a Python-based program for malaria detection, leveraging machine learning, deep learning, and image processing techniques. Implemented a convolutional neural network (CNN) model for image classification. Preprocessed and augmented data, achieving an impressive accuracy rate of 90 percent in detecting malaria.
- **Apple iPhone Website Clone**
  React Js, Three Js, GSAP, Javascript, Vite, 3D Modeling Github
  Live Link
  – Developed a React-based clone of the Apple website, focusing on 3D modeling and animations. Utilized Three.js for 3D graphics and GSAP for animations, integrated into a responsive design using modern React features like hooks and the context API. The project was built with Vite, ensuring a fast development and build process. Used React Modules for maintainable styling and React Router for seamless navigation.

Certifications

- **iOS Mobile Application Development**: META
- **Docker Essentials**: IBM
- **Cloud Computing**: AcmeGrade
- **MERN Stack**: Brain Mentors
- **Python for Data Science**: IBM

Skills

- **Programming Languages**: Python, Java, Swift, JavaScript, MySQL
- **Frameworks**: React, Node.js, SwiftUI
- **Developer Tools**: Git, PostGre SQL, Microsoft Azure, Github, Docker, XCode
- **Developer Skills**: Machine Learning, Deep Learning, NLP, Data Science, AI