KANCHAN ASHOK NAIK

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*Motivated professional with a strong background in software engineering and data analytics. Experienced in designing and developing cross-platform applications and skilled in implementing **Machine Learning** algorithms for **predictive modeling**.*

EDUCATION

- **Masters in Data Analytics(DA)** **San Jose State University, San Jose, California, USA** Pursuing
  Relevant Coursework: Database systems for DA, Math methods for DA, Business Intelligence and Data visualization , Big Data and Technology
  GPA 3.8/4.0
- **B.E.(Information Technology)** **Vishwakarma Institute of Information Technology, Pune, Maharashtra, India** June 2018
  Relevant Coursework: Machine Learning, Business Intelligence, Design and Analysis of Algorithms, First Class with Distinction
  Database Management Systems (DBMS), Advance Database, Software Engineering

RESEARCH PUBLICATIONS

- Published a paper titled 'Fake Currency Detection Using Image Processing and Random Forest Algorithm' in the journal *'Recent Trends in Artificial Intelligence & its Applications(e-ISSN:2583-4819)'*

CERTIFICATIONS

- Certification in Python from Prygma Educorp

TECHNICAL SKILLS

- **Languages:** C#, Python, Java, JavaScript
- **Web Skills:** HTML5, CSS3, WordPress
- **Other Tech Skills:** A/B Testing
- **Architecture:** Data Modeling, Microservices
- **Software Design Patterns:** Singleton, Strategy, Factory, Adaptor, Decorator, Observer, Command
- **Soft Skills:** Solution-oriented, Good communication skills, Time management, Work under pressure, Teamwork, Leadership, Organization skills, Planner and Executor
- **Database and DataWarehouse:** MySQL, MongoDB, Cassandra, RedisDB, Neo4J, PostgreSQL, SnowQL, BigQuery, Snowflake
- **Frameworks & Libraries:** Dapper, MoQ, Nunit, ReactJs, Bootstrap, Angular, JQuery, REST APIs, SOAP APIs, MVC, Pandas, NumPy, MatplotLib
- **Tools:** PowerBI, Tableau, Jupyter Notebook, Google Colab, Microsoft SQL Server, Google Cloud, Data Prep, Dataflow, Es Kibana, Sumology, Google Suite (Sheets, Slides), Microsoft Office Suite (Excel, PowerPoint), Git, Jira, Postman, Swagger etc.

WORK EXPERIENCE

Lead Software Engineer **Musafir.com, India Pvt. Ltd.** Aug 2018 - Nov 2023

- Designed and developed an algorithm to provide flight and hotel recommendations based on users' purchase history and a non-user-based prioritization algorithm to filter relevant flights and hotels.
- Led the iOS development team and successfully launched Musafir.com's 1st iOS app with a critical deadline.
- Automated many manual processes for operations staff, which reduced their workload by more than 50%.
- Designed and developed an architecture and database structure from scratch for multiple applications.
- Developed a chatbot using Natural Language Processing by Dialogflow to understand user input and provide flight results to users over chat.
- Created dashboards to analyze booking trends, and revenue generation for B2B customers, and monitor app performance and key financial metrics.
- Advanced from Trainee to Lead Software Engineer in four years, showcasing strong technical skills and leadership.
- Collaborated with stakeholders to identify business needs, analyze workflows, and develop solutions like Multi-Approval Workflow and Customer Conversation Workflow; during these projects collected and analyzed data to generate insights, tracked KPIs, and managed project progress, ensuring alignment with business objectives.

TECHNICAL PROJECTS

Electric Vehicle and Charging Infrastructure Analysis

- The project tackled the imbalance between the rapid growth of electric vehicles (EVs) and inadequate charging infrastructure.
- Developed a dynamic dashboard to visualize EV market trends and charging infrastructure, utilizing ETL processes for data cleansing, integration, and transformation from diverse sources.
- The analysis leveraged predictive analytics to optimize charging infrastructure investments, identify gaps in the EV ecosystem, ensure data-driven decisions for balanced energy supply and demand, and support sustainable mobility and the transition to electric vehicles.

Food Security And Access Analysis

- Developed a visualization tool for analyzing food security and accessibility across the U.S.
- Assessed food availability and insecurity within different radii and demographics.
- The tool provided critical insights into supply chain dynamics, guiding targeted interventions and informing public policy evaluations.

Fake Currency Detection Using Image Processing and Machine Learning

- Developed an Android application using image processing and machine learning techniques to detect counterfeit currency for identifying fraud.
- The backend was developed using Java, employing image processing techniques like gray scaling, segmentation, and edge detection to extract features, and utilizing the Random Forest algorithm for predicting currency authenticity.
- Contemporary apps required UV light, had slow processing speeds, and lower accuracy. This app improved speed by processing data on the server and increased accuracy using Random Forest algorithm with multiple decision trees.

Bank Loan Eligibility Predictor

- Designed an algorithm to decide customers' loan eligibility using parameters such as credit history, income level, employment type, loan purpose, collateral value etc.
- Leveraged the Naive Bayes algorithm to predict applicant eligibility and detect defaulters.
- Achieved 95% accuracy in identifying high-risk candidates.

Sentiment Analysis to Analyze Customer Feedback

- Used the TextBlob library to perform analysis of customer feedback for the product to gain actionable insights into user sentiments.
- This application helped businesses to make data-driven decisions about product offerings, customer satisfaction, and customer retention strategies.