Vaibhav Singh

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PROFILE

Data Scientist enthusiast and Software Engineer with a Master's in Data Science from Macquarie University, distinguished by innovative contributions to ML fraud detection in Truuth, and portal development as Software Engineer. Strong expertise in AWS, Liferay, Spring boot, and diverse technologies. Proven record of successful project analytics, development, management, and delivery. Excels in translating complex data insights into actionable solutions. I'm passionate about innovative solutions and eager to contribute to your team.

EDUCATION & QUALIFICATIONS

Macquarie University - Master`s degree Data Science | Distinction   July 2021 – July 2023

University of Mumbai - Bachelor`s degree Engineering | First Grade   July 2011 – June 2015

WORK EXPERIENCE

Data Science Intern | Truuth   Sep 2022 to Jun 2023

Truuth is a Sydney, Australia-based Start-up that provides secure and accurate digital identity services, as a protection against fraud using AI/ML.

Roles and Responsibilities:

- Develop & integrated a PyTorch based anomaly detection model to identify fraud Australian Driver license and Passport with above 95% accuracy across all states. In addition, I designed the data extraction, feature engineering, modelling and analytics architecture.
- Leverage AWS services like AWS Sagemaker, Lambda, and S3 for Product lifecycle.
- Bring analytics and data processes to the team

Software Engineer | Saint Gobain (INDEC)   Jan 2018 to Sep 2021

Saint-Gobain is renowned for its cutting-edge solutions in construction and high-performance materials, popular for glasses around the world. While INDEC is the IT services department arm for all its groups.

Roles and Responsibilities

- Developed and maintained two Liferay CRM based employee and marketing portals.
- Migrated portals from Liferay 6.2 EE to DXP 7.0. Made over Liferay Enterprise portal with remote staging configuration to host 300+ sites with over 60k users spread across 3 instances.
- Integrated with Alfresco, Jive, Stock market & Social API Integration. Varnish & Elastic search for cache, Open API standards used, and also integrated spring boot for batch processing tasks.

Software Engineer | KPIT   Jan 2017 to Jan 2018

Contributed to pioneering projects at KPIT Technologies, a prominent global technology company specializing in digital transformation and automotive solutions.

Roles and Responsibilities:

- I was part of two team members responsible for migration of customer facing mobile service purchase portal from Salesforce to Liferay 6.2 EE
- Developed a plugin for multiple file uploads including configurable validation rules.
- Leveraged product resources Java 7, SVN, Jenkins, MySQL, Redhat

Software Engineer | Nucsoft Aug 2015 to Jan 2017

Engaged with Nucsoft, a dynamic IT solutions provider recognized for delivering innovative software services and business solutions to diverse industries.

Roles and Responsibilities

- Developed Liferay 6.2 CE portal for as a part of 4 team members for Magma Fincorp now Suncorp.
- Developed Java based TAT, Tax calculation logic with Hooks, portlets and JQXTree Grid, and Materialized Views
- Integrated Pentaho for near real-time data flow across multiple system

PROJECTS

Google Ecommerce data exploration with Airflow Oct 2022 – Oct 2022

- Orchestrated a comprehensive end-to-end analytics pipeline on Google Cloud Platform (GCP).
- Leveraged advanced analytics methodologies to engineer curated datasets, resulting in the creation of multiple high-impact tables tailored for optimised decision-making processes, and translated findings into dynamic visualizations using Google Data Studio.

Employment in California: An analysis on the trends of employment and wages Aug 2021 – Dec 2021

- Employed statistical techniques like Linear Regression and k-means Clustering to analyse employment trends and relative wage variations.
- Utilised CSV files sourced from the State of California Employment Development Department website and the California open data portal.

Mobile Customer Churn Aug 2021– Oct 2021

- Analysed CSV based data on a simulated dataset derived from real Optus data for precise feature interpretation and relationship mapping.
- Conducted feature engineering, built Logistic regression, Random Forest & Gaussian Naive Bayes to predict churn (CHURN_IND).

Sport Vouchers Program Analysis Aug 2021 – Oct 2021

- Employed EDA techniques on the Sport Vouchers program dataset from data.gov.au. Utilised ABS SEIFA data by LGA to analyze voucher distribution identifying links between socioeconomic factors and voucher use.
- Leveraged visualisation methodologies such as bar plots, scatter plots, and heatmaps to synthesize complex insights from the Sport Vouchers program data. Effectively communicated regional and sports-specific voucher trends.

SKILLS & TOOLS

Data Science, Machine Learning, Python, Software Engineering, Machine Learning, AI Development, Data Pipelines, Docker, REST APIs, Cloud Infrastructure (GCP, AWS), Back-end Development, Front-end Development, Public Cloud (GCP, AWS), Regulatory and Governance, Complex Organizational Processes, Data Science, Data Visualization, Data Modeling, Data Cleaning, Data Validation, Deep Learning, Model Deployment Frameworks, AI/ML Components, Communication, Research, Agile Methodology, Jira, Git.

REFERENCES

Mike Simpson | Cofounder, Truuth

Sandeep Kamath | Software Engineer, Transport NSW

Suyash Bhalekar | Manager IT, Saint Gobain