

Project Summary | **REFERENCES / REPORTS ARE AVAILABLE IF REQUESTED**

Project Scope	Professional + Academic + Personal Projects
Analytics/ML Projects	Page 1 to 2 Top 10 Projects from year 2022-24
SDE/Web/Database Projects	Page 3 to 4 Top 10 Projects from year 2022-24

ANALYTIC PROJECTS

(1) Instagram Reach Analysis – Data Processing & Governance

Project Background : Personal Project | 2024

Tech stack : Power BI, csv

Description :

- Executed an in-depth analysis of a 1,000-record customer loan dataset using Power BI, revealing a top 10% client concentration and identifying critical regional trends.
- Designed interactive dashboards and leveraged PowerBI to translate complex data into actionable business intelligence, driving strategic decision-making.

(2) Software asset management inventory management & cost analysis

Project Background : Professional project executed at BNP Paribas Pvt. Lim | 2023

Tech stack : Excel, VB Scripts, SAM tool, ServiceNow

Description :

- Developed a VB scripts in excel to generate over 100 individual SAM business day-to-day billing and ROI reports with 99% accuracy in under 2 minutes.
- Utilized advanced data processing techniques, improving reporting efficiency by 40% and reliability by 25%.

(3) Student Performance Analysis

Project Background : Personal Project | 2023

Tech stack : IBM SPSS, Excel

Description :

- Orchestrated a large-scale statistical analysis of 10,000 student records, extracting three pivotal KPIs and developing predictive models that enhanced accuracy by 15%.
- Applied IBM SPSS for rigorous variable testing and Excel for impactful data visualization, contributing to improved educational outcomes through targeted insights.

(4) Loan Customer Analysis

Project Background : Professional project executed at ERGO Technologies | 2023

Tech stack : Power BI, SQL

Description :

- Executed an in-depth analysis of a 1,000-record customer loan dataset using Power BI, revealing a top 10% client concentration and identifying critical regional trends.
- Designed interactive dashboards and leveraged Tableau to translate complex data into actionable business intelligence, driving strategic decision-making.

(5) ITSM - Change Management Reports Automation

Project Background : Professional project executed at BNP Paribas Pvt. Lim | 2022

Tech stack : ServiceNow, Excel, JS, VB, VLOOKUP, adv. Excel formulas

Description :

- Developed an Excel and VBScript-based application to automate data analysis and gap analysis. Integrated with ServiceNow using REST APIs to generate real-time reports on over 500 production change requests and ticket statuses.
- Enhanced reporting efficiency by 40% and reduced manual processing time by 60%.

(6) Twitter - The COVID Effect:

Project Background : Academic Project | 2023

Tech stack : Python, Flask, HTML, CSS, and JavaScript, AWS

Description :

- Analysed 80,000 multilingual tweets using Natural Language Processing (NLP) and Sentiment Analysis to generate dynamic COVID-19 query results with political impact insights.
- Improved sentiment classification accuracy by 85% and reduced query response time by 50%.

(7) Brain Tumour Segmentation Using MRI Reports

Project Background : Academic Project | 2022

Tech stack : Machin Learning, Python, Google collab, JS, image processing

Description :

- Developed a database system with JavaScript and MySQL for image processing.
- Implemented K-means clustering and machine learning algorithms to classify tumour stages from MRI scans, achieving 100% accuracy in segmentation and classification.
- Utilized OpenCV for image processing and TensorFlow for enhanced data interpretation.

(8) Python-based Examination of Uber Driver Journeys

Project Background : Personal Project | 2023

Tech stack : Machin Learning, Python, Google collab

Description :

- Conducted user acceptance testing for a Python-based project analyzing Uber driver journeys.
- Ensured data analysis results met stakeholder expectations and business requirements, leading to a 30% improvement in data accuracy and actionable insights.

(9) Real-time Data Pipeline Management

Project Background : Personal Project | 2023

Tech stack : Java, Docker, Kafka and Kubernetes

Description :

- Optimized real-time graph processing performance by 50% through the implementation of efficient graph processing algorithms in a scalable and fault-tolerant data processing pipeline utilizing Java, Docker, Kafka and Kubernetes

(10) Aggregate Planning at Green Mills

Project Background : Personal Project | 2023

Tech stack : Advance Excel

Description :

- Analysed Chase, Level, and Optimal production strategies to optimize operations amid market fluctuations, focusing on production adjustments and workforce management.
- Achieved 97% accuracy in controllable variables, enabling cost-effective decision-making.

SOFTWARE DEVELOPMENT/WEB/DATABASE PROJECTS :

(1) Store Inventory Database Management System

Project Background : Academic Project | 2024

Tech stack : MySQL, HTML, CSS, and JavaScript.

Description :

- Implemented CRUD functionalities with database normalization, complex SQL joins, and aggregate functions. Achieved a 40% improvement in data retrieval efficiency and created comprehensive technical documentation to support system design and user operations for managing over 5,000 inventory records.

(2) CyberArk Implementation

Project Background : Professional project executed at ERGO Technologies | 2023

Tech stack : CyberArk, Active Directory, AWS, Shell script, Project planner, Trello, Clarity

Description :

- Managed end-to-end delivery of CyberArk IT security application and BNPP chatbot projects, involving 20+ team members.
- Utilized Scrum and Agile methodologies to oversee program budgeting of \$1.5M, ensured timely completion of 15+ sprints, and maintained stakeholder communication and risk management, resulting in a 95% on-time delivery rate.

(3) Cloud Infrastructure Orchestration with Terraform and AWS

- Executed infrastructure as code (IaC) using Terraform to provision and manage cloud resources on AWS

(4) BNPP Chatbot Implementation

Project Background : Professional project executed at BNP Paribas | 2022

Tech stack : AWS, .NET

Description :

- Led the implementation of an AI-driven chatbot for BNPP India using NLP and machine learning technologies. Managed vendors, conducted technical evaluations, and ensured compliance with SLAs.
- Coordinated with vendors and internal SMEs for bot development, and successfully conducted UAT, synchronizing with end customer teams for solution recommendations and integration support.

(5) MPS Printer Migration: PAN India Refresh of 150+ Printers & Infrastructure for 10K+ Users

Project Background : Professional project executed at BNP Paribas | 2022

Description :

- Led deployment across 6 business entities, delivering the project within 6 months, on time and within budget during the pandemic. Coordinated with stakeholders for future requirements and out-of-scope services.

(6) ITIP & IAM SharePoint Development

Project Background : Professional project executed at BNP Paribas | 2022

Tech stack : SharePoint Console, IAM, Power apps, JavaScript, SharePoint designer, HTML, CSS

Description :

- Designed and developed a SharePoint site for ITIP & IAM using SharePoint Framework (SPFx), Power Automate, and JavaScript.
- Focused on enhancing department service branding, optimizing internal workflows, and automating service level processes.

(7) Asset Refresh Slot Booking Tool

Project Background : Professional project executed at BNP Paribas | 2022

Tech stack : SharePoint Console, IAM, Power apps, JavaScript, SharePoint designer, HTML, CSS

Description :

- Created a slot booking tool for hardware replacement using SharePoint, PowerApps, Power Automate, and SPFx. Implemented JavaScript and REST APIs to streamline scheduling for 6,000+ users, reducing processing time by 30% and improving scheduling efficiency.

(8) New Joiner Launchpad

Project Background : Professional project executed at BNP Paribas | 2022

Tech stack : SharePoint Console, IAM, Power apps, JavaScript, SharePoint designer, HTML, CSS

Description :

- Developed a web handbook using SharePoint and PowerApps, delivering IT and services information to over 1,000 new joiners.
- Integrated interactive features and user-friendly navigation, resulting in a 40% reduction in onboarding time and a 25% increase in new hire satisfaction

(9) Low Light and Over Exposed Image Enhancement Python

Project Background : Personal Project | 2024

Description :

- Applied image contrast algorithm, designing weight matrix for image fusion via illumination estimation techniques to enhance contrast.
- Devised a novel method for fusing input image with artificial image, resulting in improved contrast.

(10) Procurement of Raw Material Using NFC

Project Background : Academic Project | 2018

Description :

- Created a web-based app using .NET and SQL for managing raw material procurement. Improved inventory management accuracy by 30%, utilized Node.js and Bootstrap for a user-friendly frontend, and implemented data analysis algorithms to predict future inventory needs with 85% accuracy.