Puja Kadayat

Narephat,Koteswor

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I am currrently final –year student pursuing a Bachelor of Science in Computer Science(CS). I have a strong interest in technology,driven by my desire to tackle challenging problems and discover emerging technologies.

EDUCATION

KathmanduUniversity | 2021-2026
Bachelor's in Computer Science

Shree Durga Laxmi Higher Secondary School |2018-2020
Class 12th Board

PROJECTS

Tapflap

- Developed the game using C++ and the Qt framework.
- Implemented core game mechanics, including player movement and obstacle generation.
- Designed and integrated a scoring system to track player progress.
- Created a user interface for intuitive navigation and gameplay.

Kakshya

- Developed a MERN stack web app with role-based dashboards (Student, Teacher, HOD).
- Enabled features like attendance tracking, grade management, and administrative tasks
- Designed responsive UI using React.js and Material UI.
- Improved efficiency in academic processes and communication.

Yatra

- Developed a user-friendly app for seamless hotel and flight bookings.
- Integrated real-time availability, secure payments, and location-sharing features.
- Built using Flutter (frontend) and Firebase (backend).
- Core modules: User login, hotel/flight booking, reservation management.
- Simplified travel planning, saving userst ime and effort.

DataQuest " A Public Surveying Website"

- Developed a versatile platform using the MERN stack for surveyors.
- Enabled surveyors to create and share survey forms via link.
- Implemented a data storage panel to organize and manage survey results.
- Integrated data visualization features for real-time analysis and reporting.
- Streamlined the surveying process by allowing surveyors to share links for form completion.
- Tailored the platform to meet the diverse needs of surveyors across various industries.

Winkle" A multi Vendor App"

- Developed acomprehensive multi-vendor mobile application using Flutter and Firebase
- Created a cross-platform solution for local e-commerce ecosystem, enabling seamless vendor and customer interactions
- Dual-role user system (vendors and customers in same application)
- Secure vendor, customers registration and verification process
- Real-time product listing and inventory management
- Integrated order tracking and management system

MyBlog " A blogging website"

- Developed a blog platform using django with writer and reader role
- Implemented user authentication and role-based access control
- Created features for article creation, editing, and publishing
- Designed responsive interface for seamless reading experience

Nepalese Culture Based English Flashcard (Hackathon third place project)

- Developed a nepalese culture based english flashcard using fastapi, reactjs with adaptive learning approach
- Created flashcards that teach English words using Nepali cultural context
- Implemented smart learning system that adapts to user's progress
- Built tracking system to monitor learning performance
- Designed engaging interface with culturally relevant examples

AI Resume Analyzer

- Developed a modern web application using React, React Router, and Puter.js for intelligent resume analysis
- Implemented secure resume upload and cloud storage functionality using Puter.js
- Integrated AI-powered ATS scoring system to match resumes with job descriptions
- Built browser-based authentication without requiring backend infrastructure
- Designed responsive and reusable UI components using Tailwind CSS and shadcn/ui
- Utilized Zustand for efficient state management across the application
- Created modern user interface for seamless resume evaluation and feedback generation

DATA ANALYSIS PROJECTS

Banking Customer Data Analysis

- Analyzed comprehensive banking customer dataset to understand demographics, account behavior, and profitability
- Performed customer segmentation analysis using clustering techniques to identify distinct customer groups
- Examined transaction patterns, account types, balance distributions, and customer lifetime value (CLV)
- Conducted churn analysis to identify at-risk customers and factors contributing to attrition
- Created detailed visualizations of customer distribution across banking products and services
- Provided data-driven insights for personalized marketing campaigns and customer retention programs
- Analyzed credit risk patterns and loan default trends

E-commerce Sales Analysis

- Conducted comprehensive analysis of e-commerce sales data to identify revenue drivers and customer purchasing patterns
- Performed exploratory data analysis (EDA) revealing seasonal trends and peak sales periods
- Analyzed product performance metrics including conversion rates, average order value, and product category profitability
- Created data visualizations showing sales distribution, customer demographics, and revenue trends
- Identified top 20% products generating 80% of revenue using Pareto analysis
- Delivered actionable recommendations for inventory management and targeted marketing strategies
- Generated sales forecasts using historical trend analysis

Customer Trend Data Analysis

- Analyzed customer behavior trends over multiple time periods to identify patterns and predict future behavior
- Implemented time-series analysis techniques to uncover seasonal trends, cyclical patterns, and growth trajectories
- Developed customer segmentation models based on RFM (Recency, Frequency, Monetary) analysis
- Created cohort analysis to track customer retention and engagement over time
- Built predictive models to forecast customer lifetime value and purchase probability
- Designed interactive dashboards visualizing key customer engagement metrics and KPIs
- Generated actionable insights resulting in improved customer retention strategies

Netflix Movie Data Analysis

- Analyzed Netflix content library dataset comprising thousands of movies and TV shows
- Examined content trends including genre distribution, rating patterns, and release year analysis
- Investigated regional content production and geographic distribution of Netflix originals
- Created comprehensive visualizations showing content evolution from 2008-2021
- Analyzed movie duration trends, TV show season patterns, and content rating distributions
- Identified peak content addition periods and genre popularity shifts over time
- Provided insights on content strategy, audience preferences, and market positioning

Data Analysis with SQL

- Demonstrated advanced SQL proficiency through complex data analysis scenarios
- Wrote optimized queries involving multiple joins, common table expressions (CTEs), and subqueries
- Performed data cleaning, transformation, and validation using SQL functions
- Created aggregate reports with GROUP BY, HAVING, and window functions
- Implemented stored procedures and views for recurring analytical tasks
- Conducted performance tuning and query optimization for large datasets
- Generated business intelligence reports directly from relational databases
- Utilized date functions, string manipulation, and conditional logic for data transformation

Dashboard Data Mining

- Built interactive data mining dashboard for exploratory data analysis and pattern discovery
- Implemented clustering, classification, and association rule mining algorithms
- Created real-time visualizations to display mining results and insights
- Developed automated data preprocessing pipeline for data cleaning and transformation
- Designed intuitive interface for performing data mining tasks and generating actionable insights

Skills

Technical Skills:

Data Analysis & Visualization: Python (Pandas, NumPy, Matplotlib), SQL, Data
Visualization, Statistical Analysis

Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js),
Django,Firebase

Tools & Technologies: Git, GitHub, REST APIs

P**rogramming Languages**: Python, JavaScript, C++, SQL

Soft Skills : Communication ,Teamwork,Problem Solving,Time Management,Critical thinking,Attention to detail,Adaptability

CERTIFICATES

- WAKE
- ML Bootcamp
- Python for Data Science, AI & Development(IBM)
- Web Application Technologies and Django – University of Michigan
- SQL (Intermediate)–HackerRank
- Databases and SQL for Data Science with Python(IBM)