DHIMANT ADHIKARI

A skilled Computer Science graduate with proven experience as an IR Analyst, automating workflows and building data-driven tools using Excel, SQL, Power BI, Power Query, and PowerApps.

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Portfolio

TECHNICAL SKILLS & TOOLS

Programming Languages: Python, Java, SQL
Data Analytics & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, Excel
Machine Learning & AI: Scikit-Learn, PyTorch
Web Development: HTML, CSS, JavaScript, React, Node.js, Express.js, Streamlit
Database & Backend Technologies: MongoDB, SQL, Firebase
Automation & Workflow Tools: PowerApps, Power Automate, Power Query, Power Pivot
Version Control & Collaboration: Git, Microsoft Office Suite

EDUCATION

MASTERS OF SCIENCE IN COMPUTER SCIENCE
The University of Texas Permian Basin | Odessa, Texas | Graduated: May 2025

3.7/4.0 GPA

BACHELORS OF SCIENCE IN COMPUTER SCIENCE
The University of Texas Permian Basin | Odessa, TX | Graduated: May 2023

3.81/4.0 GPA

WORK EXPERIENCE

INSTITUTIONAL RESEARCH & EFFECTIVENESS STUDENT ANALYST
The University of Texas Permian Basin | Odessa, TX | Oct 2024 - May 2025
Enhancing IR workflow:

- Created SharePoint hub sites for survey reports for university departments to enable easy access to reports that are ready for submission by the concerned department.
- Developed SQL-powered, dynamic, self-updating Excel reports to be embedded and shared across multiple departments in the created SharePoint hub sites.
- Designed a Survey Manager PowerApps to add, remove, update, and delete all the reports handled by the IR/IE department.
- Created a Master Dashboard (Power BI) to visualize submissions by month, status, accreditation, approval status, department, and frequency—enabling executives to spot bottlenecks at a glance.
- Automated the IPEDS Factbook production by designing Excel pivot-table models that dramatically reduce manual report-preparation.

Automating IE workflows:

- Created a Dashboard for course availability and approval tracking to monitor curriculum changes through PowerApps that lets users add, delete, or modify courses.
- Developed an End-to-end Power App / Power Automate solution for rubric submission: professors upload files to SharePoint, Power Query ingests and categorizes by core objectives, and Power BI dashboard surfaces metrics per objective.

PROJECTS

COMPREHENSIVE DATA ANALYTICS PROJECT
This project undertakes a thorough analysis of the Titanic disaster, utilizing SQL and Python to explore the relationship between passenger demographics and survival outcomes. Data was processed, cleaned, and visualized using Pandas, Matplotlib, Seaborn, and Tableau to generate data-driven insights.

DATA ANALYTICS AND VISUALIZATION WEB APPLICATION
Web application built using Streamlit and Node.js that allows users to upload data files, perform in-depth analysis, and generate visualizations. Features include AI-driven previews, secure user authentication, and responsive design for seamless data interaction.

GENETIC ALGORITHMS PORJECT
The python project contains an implementation of a Knapsack solver, Traveling Salesman network generator, and a Subset Sum Problem Solver applications using Genetic Algorithms approach.

INTERACTIVE NEURAL NETWORK VISUALIZER
An educational Python desktop application that empowers users to configure, train, and visualize multi-layer perceptrons (MLPs) in real time. Built with Tkinter, NumPy, pandas, and Matplotlib, this tool provides a hands-on window into the inner workings of neural networks, from data preprocessing to live weight updates.

CNN VISUALIZATION FOR GLASSES CLASSIFICATION
A Convolutional Neural Network (CNN) project to classify images of glasses vs. no-glasses with a real-time visualization interface created without using any libraries related to neural networks.

BALL-GAME ENGINE USING JAVA
Built a multi-level ball game engine that features real-time physics and collision detection across diverse obstacles—platforms, spikes, projectile traps, and AI-driven villains—managed through a customizable Level-management system for game developers.

WORLD CUP 2014 DATA ANALYSIS
Java-based application that connects to a MongoDB database to perform complex queries on World Cup 2014 data. The project includes data extraction, aggregation, and analysis of countries, matches, and players, with outputs saved to text files for easy review.

MYDROBE | WARDROBE ORGANIZER
Designed and developed a web-based application using Figma, React JS, HTML, and CSS to help users organize their wardrobes and generate outfits

FACEBOOK PHISHING SIMULATION PROJECT
A cybersecurity project that simulates a phishing attack by mimicking Facebook's login interface. Captures user credentials in a Firebase Firestore database, demonstrating the risks of phishing scams and the importance of cybersecurity awareness.

ACHIEVEMENTS

DEAN'S LIST
The University of Texas Permian Basin
Earned recognition on the Dean's list for academic excellence.

CHESS CLUB PRESIDENT
University of Texas Permian Basin
Coordinated tournaments and conducted strategy learning sessions for chess enthusiasts at UTPB.

STUDENT ORIENTATION LEADER
University of Texas Permian Basin
Coordinated and led university tours for incoming freshmen, ensured a welcoming and informative experience in navigating their transition to university life by offering guidance, support, and resources to ensure a smooth adjustment to university environment.

SGA GRADUATE SEAT SENATOR
University of Texas Permian Basin
Advocated for graduate student interests and co-planning campus-wide events.