

Panita Vaishnavi Kanaguduru

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PROFESSIONAL SUMMARY

Versatile **Data Analyst** and **Software Developer** with expertise in **data visualization**, **machine learning**, and scalable **.NET backend development**. Proficient in **Power BI**, **Python**, **SQL**, **Azure**, and skilled at turning data into insights. Proven success in fraud detection, automation, and dashboarding.

EDUCATION

University of Central Florida Aug 2024 – Present

M.S. in Statistics & Data Science, GPA: 3.5

Oviedo, FL

Sree Vidyanikethan Engineering College

Aug 2019 – May 2023

B.S. in Electrical and Electronics Engineering, GPA: 8.01

Tirupati, India

EXPERIENCE

University of Central Florida

Academic Coach & Technical Contributor – Project BEST

May 2025 – Present

- Redesigned the **Project BEST website** using **WordPress**, **Gutenberg blocks**, and **Bootstrap**; ensured responsive layout and improved UX.

- Designed digital forms in **Figma** for **Blumen** and supported students with academic coaching and study strategies.

Database Administrator (Migration Planning)

Apr 2025 – May 2025

- Initiated documentation for migration from **FileMaker Pro** to **Salesforce CRM**, including data structure analysis and field mapping plan.

- Collaborated with the President of PALS to align Salesforce CRM setup with CARD's automation and reporting goals.

SOTI Private Limited

Kerala, India

Software Developer – .NET

July 2023 – July 2024

- Worked on **accessibility enhancement tasks** to ensure compliance with usability standards and improve user experience across key modules.

- Implemented **custom branding support** by building APIs and backend logic to define and store default and user-defined button styles for the company's web-based products.

- Built backend logic to support **certificate renewal configurations with a 100-year validity period**, ensuring long-term platform stability and uninterrupted service.

PROJECTS

Intelligent Resume Screening System | *Python, NLP, Streamlit, Machine Learning, Tableau*

- Developed an ML-based tool to match resumes to job roles using **TF-IDF similarity**, **skill matching**, and **classification**.

- Built an interactive **Streamlit app** to visualize top matching resumes, threshold filtering, and PDF downloads.

- Integrated a dynamic **Tableau Dashboard** to analyze match scores and shortlisting insights.

- Enabled multi-role comparisons, live JD upload, and customizable scoring weights for screening.

Credit Card Fraud Detection Dashboard | *Python, SQL, Power BI, Random Forest*

- Built a fraud detection model (Random Forest) with **87% accuracy** on 285K transactions.

- Created and plotted interactive visuals in **Power BI**, including fraud indicators and trends.

- Saved predictions to **MS SQL Server** using SQLAlchemy; plotted **feature importance** and correlations.

Diabetes Risk Prediction | *Python, Logistic Regression, Random Forest, EDA*

- Performed **exploratory data analysis** and built classification models to predict diabetes risk.

- Achieved over **85% accuracy** using **Logistic Regression** and **Random Forest**.

- Visualized correlations, class distributions, and ROC curves to assess model performance.

Hospital Management System | *Angular, Node.js, MySQL, JWT*

- Built a role-based hospital portal with modules for **patient registration**, appointment scheduling, and doctor management.

- Implemented **real-time availability tracking** to reduce booking

TECHNICAL SKILLS

Programming Languages: Python, SQL (MySQL, Oracle), R, JavaScript, HTML/CSS, C#

Frameworks and Tools: React, Node.js, FastAPI, Bootstrap, .NET Core, JWT, REST APIs, Salesforce

Libraries: pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, XGBoost, TensorFlow, NLP, PySpark

Developer Tools: Git, VS Code, Visual Studio, Jupyter, Anaconda, Postman

Cloud Platforms: Microsoft Azure, Google Cloud Platform (GCP)

Data Analytics and Visualization: Power BI, Tableau, Excel, KPIs, Predictive Analytics, Data Preparation, Business Intelligence, Data Modeling, Data Warehousing, ETL, XML, Data Studio, Snowflake, SAS, SAAS

Other Skills: Business Analytics, Product Analytics, Product Management, Business Intelligence, Problem Solving, Critical Thinking, Communication Skills, Presentation Skills

CERTIFICATIONS

IBM - Data Science Professional Certificate

Salesforce - Salesforce Developer Catalyst

NPTEL - Database Management Systems

Verzeo - Machine Learning Using Python

LEADERSHIP & ACTIVITIES

NSS Volunteer (2019–2022) – Led community-driven initiatives and events.