

PANITA VAISHNAVI KANAGUDURU

689-249-6405 | panitakanaguduru.18@gmail.com | linkedin.com/in/panitak | github.com/panitakanaguduru | Portfolio Website

PROFESSIONAL SUMMARY

Versatile **Data Analyst**, **Software Developer**, and emerging **Project Manager/Scrum Master** with hands-on experience in **data visualization**, **machine learning**, and creative **computer vision** applications. Proficient in **Power BI**, **Python**, **SQL**, **OpenCV**, and experienced in leading cross-functional Agile teams. Proven success in fraud detection, automation, resume screening, and media generation tools.

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: OpenCV, pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, XGBoost, TensorFlow, NLP, PySpark, Pytorch, Deep Learning

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

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

Data Analytics and Visualization: Power BI, Tableau, Excel, KPIs, Machine Learning, 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, Agile (Scrum, Kanban), Image Processing, Problem Solving, Critical Thinking, Communication Skills, Presentation Skills

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.

Image Filter and GIF Generation | *Python, OpenCV, Matplotlib*

- Created a tool that converts user-uploaded images into **pencil sketch filters** using OpenCV image processing.
- Generated sketch **GIF visualizations** using **Matplotlib** and export functionality.
- Demonstrated creative application of **computer vision** and media generation for real-world usability.

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 conflicts and enhance scheduling efficiency.

EXPERIENCE

University of Central Florida

Academic Coach & Technical Contributor – Project BEST

May 2025 – Present

- Led planning and execution of the **Project BEST website redesign**, managing layout strategy and stakeholder input independently.
- Collaborated with cross-functional teams using **Agile methodology** and **project tracking tools** to meet launch deadlines.
- Designed digital forms in **Figma** for **Blumen** and coached students on academic improvement strategies.

Database Administrator (Migration Planning)

Apr 2025 – May 2025

- Documented **FileMaker Pro to Salesforce CRM migration** strategy, including field mapping and automation goals.
- Collaborated with PALS leadership to align platform setup with reporting and data structure requirements.

SOTI Private Limited

Kerala, India

Software Developer – .NET & Scrum Master (Short Term)

July 2023 – July 2024

- Served as interim **Scrum Master** for 2 sprints; facilitated daily stand-ups, sprint planning, and retrospective sessions.
- Managed backlog prioritization and stakeholder coordination for key deliverables including **custom branding API** and accessibility upgrades.
- Built backend logic for **certificate renewal automation** with 100-year validity and implemented styling configurations.

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

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.