NIKHIL NAIDU PYLA

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Professional Summary

Graduate in Computer Engineering with strong expertise in backend development, SAP ABAP, and data-driven application design. Experienced in building scalable APIs, integrating databases, and applying machine learning techniques to solve real-world problems. Skilled in PostgreSQL, MongoDB, and FastAPI with the ability to design systems that are flexible, efficient, and user-focused. Proven track record in delivering software solutions that improve efficiency and provide actionable insights.

Technical Skills

Programming & Frameworks: Python, FastAPI, C/C++, SQL, JavaScript, SAP ABAP, Shell Scripting, Data Structures
Databases: PostgreSQL, MongoDB, MySQL
Machine Learning & Data Analytics: Pandas, NumPy, Scikit-learn, Matplotlib
Cloud & Platforms: AWS Cloud, Linux Administration
Certifications: Python Programming (Coursera), HTML Basics (Coursera), AWS Cloud

Professional Experience

Software Trainee – SAP ABAP & Linux | Miracle Software Solutions (1.5 years)

• Developed and optimized SAP ABAP programs including reports, module pool programming, enhancements, ALV reports, BAPIs, BDCs, and Smart Forms.
• Performed debugging, performance optimization, and database handling in SAP environments.
• Acquired hands-on experience with Linux system administration, shell scripting, and Database-to-Business (D2B) integration.

Projects

Pickleball Management System

• Designed and developed a backend system to manage and analyze player data including matches played, wins, losses, and faults committed during games.
• Built RESTful APIs with FastAPI for managing users, players, and match statistics.
• Implemented dual database integration supporting PostgreSQL and MongoDB, with

runtime selection capability during program initialization.
• Delivered a solution that provides players with performance insights and detailed statistics.
• Tools & Tech: Python, FastAPI, PostgreSQL, MongoDB, REST APIs

Humidity Prediction for Agricultural Optimization

• Built a machine learning model to predict humidity levels using environmental data (humidity, wind speed, temperature).
• Applied Linear Regression, Decision Trees, and Random Forest with evaluation metrics such as MSE and R^2.
• Delivered accurate predictions to help farmers plan irrigation schedules and crop selection.
• Tools: Python, Pandas, NumPy, Scikit-learn, Matplotlib | Dataset: Kaggle weather datasets

Education

Florida Atlantic University – Master's in Computer Science (GPA: 3.42/4)

GITAM University – B.Tech in Computer Science (GPA: 7.5/10)