

WINEEL WILSON DASARI

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Technical Skills

Programming Languages & Libraries: Python, Java, C++, C, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn

Machine Learning & Data Science: Supervised/Unsupervised Learning, Recommender Systems, Clustering, Regression, Classification, Model Evaluation, Feature Engineering, Kaggle Notebooks

Databases & Backend: SQL, SQLite, PostgreSQL, SQLAlchemy, Firebase

Development Tools & Platforms: Jupyter Notebook, VS Code, Git/GitHub, Postman, Visual Studio, Makefile, Maven

Core Areas: Data Processing, Data Structures & Algorithms, Statistics & Probability, Machine Learning, Advanced Operating Systems, Computer Networks, Database Systems, Software Engineering

Projects

SmartRecs – Hybrid Movie Recommendation System | Python, Scikit-Learn, Surprise, Pandas, Kaggle | [GitHub](#)

- Developed a hybrid recommendation engine combining TF-IDF + cosine similarity with SVD collaborative filtering to generate top-10 personalized movie suggestions with 90% accuracy on validation sets
- Processed and filtered 1M+ IMDb records (1 GB) with fuzzy matching, feature engineering, and genre-safe filtering, boosting recommendation quality by 15% compared to baseline
- Published structured notebooks and documentation, achieving runtime under 1.5s per query on Kaggle's 30GB RAM environment
- Released a clean v1.0.0 GitHub version with reproducibility and version control best practices; deployed as a Kaggle Notebook with 100+ runs

GardenSim – Computerized Garden Simulator | Java, JavaFX, OOAD, MVC, Log4j2, Maven | [GitHub](#)

- Built a cross-platform JavaFX simulation modeling plant growth, weather, pests, and seasonal dynamics in real time with under 500ms update cycles
- Applied OOAD principles and MVC architecture for modular extensibility across 5+ components
- Integrated Log4j2 + JSON config for structured logs enabling 10+ reproducible survivability tests

QuickBill – C-based Shopping Billing Application | C, Makefile, CSV File I/O | [GitHub](#)

- Developed a terminal-based billing system with admin/user modules, managing 500+ products using CSV files
- Implemented GST/discount calculations, automated bill IDs, and receipt printing, reducing billing errors by 30%

PIP-Updater – Automated Python Package Updater | Python, Argparse, PyInstaller | [GitHub](#)

- Created a CLI tool to automate updating pip and installed packages with one command, reducing manual update time by 80%
- Packaged with PyInstaller; tested successfully on macOS, Linux, and Windows

Experience

Software Developer Intern

May 2025 – Present

Frugal Innovation Center – Bilingual Math Learning App

Santa Clara, CA

- Collaborated with a cross-functional team to design and develop a bilingual (English–Spanish) math learning application using Flutter and Dart
- Implemented interactive features including tutorials, quizzes, and real-time language switching tailored for K-12 students
- Worked with structured content datasets to build adaptive quizzes and improve student learning outcomes
- Optimized app performance for offline functionality and low-end devices to ensure equitable access in underserved communities

Education

Santa Clara University

Santa Clara, CA

Master of Science in Computer Science and Engineering

Sep 2024 – Jun 2026 (Expected)

QIS College of Engineering and Technology

Ongole, India

Bachelor of Technology in Computer Science and Engineering

Aug 2019 – May 2023