

# Satish Daggubati

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## Career Objective

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Versatile and goal-oriented Computer Science graduate student with a strong foundation in Python, Java, and C, and practical experience in backend development using FastAPI, Django, and Flask. Skilled in designing RESTful APIs, managing relational and NoSQL databases (PostgreSQL, MongoDB), and deploying scalable systems with AWS. Proficient in core machine learning techniques including classification, regression, and clustering, with experience in data preprocessing, model evaluation, and visualization. Passionate about building efficient, intelligent, and impactful software solutions that bridge backend systems and data-driven decision-making.

## Skills & Technologies

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**Programming Languages** : Python, Java, HTML/CSS, Bootstrap, Perl

**Databases** : PostgreSQL, MongoDB, MySQL, Airtable

**Cloud Skills** : EC2, S3, IAM, Lambda, RDS, CloudFormation

**Frameworks and Libraries** : FastAPI, JSON, Django, Flask, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, SciPy

**Data Science & Machine Learning** : Classification, Regression, Clustering, Image Processing, NLP, TF-IDF, Hyperparameter Tuning, Model Evaluation, Data Augmentation, Data Visualization

**Tools & Platforms** : Excel, Git, GitHub, Jenkins, JIRA, Eclipse, Jupyter, Visual Studio, CI/CD Pipelines

**Methodologies** : Agile (Scrum, Kanban), Test-Driven Development (TDD)

**Core Concepts** : Data Structures Algorithms (Lists, Dictionaries, Trees, Graphs), Object-Oriented Programming

## Projects

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### Business Data Analytics Dashboard

- Built an end-to-end data analytics solution to support business decisions using **Airtable** for structured storage and **Excel** for reporting.
- Collected and integrated data from multiple APIs (e.g., job market APIs, LinkedIn job trends) into a centralized **Python** pipeline.
- Applied **data cleaning, normalization, and validation techniques** in **Pandas** to ensure high data quality.
- Used **Excel pivot tables**, formulas, and charts to present actionable KPIs for marketing and operations teams.
- Maintained Airtable databases to manage ongoing data request workflows and user-reported discrepancies.
- Created documentation for data flow, transformation steps, and stakeholder presentation slides.

### FastAPI

- Built a secure, scalable full-stack application using **FastAPI** for backend APIs and React for the frontend interface.
- Designed and managed database models with **SQLModel** and **PostgreSQL**, enabling efficient **CRUD** operations.
- Implemented robust **JWT**-based authentication and role-based access control to protect user sessions.
- Leveraged Pydantic for schema validation and settings management, improving code clarity and reliability.
- Integrated **CI/CD pipelines** using GitHub Actions for continuous integration, testing, and deployment.

### Deep Learning-Based Authentication: Unveiling Counterfeit Currency

- Developed an automated system to detect counterfeit currency by analyzing banknote images, helping reduce fraud and improve financial security leveraging **OpenCV** and **scikit-learn**.
- Applied advanced image preprocessing techniques, including **edge detection** and **morphological operations**, to enhance feature extraction and improve model reliability.
- Applied supervised classification techniques using deep learning using neural network in **TensorFlow** and **PyTorch** to distinguish counterfeit currency features.
- Utilized **NumPy**, **Pandas**, and **Matplotlib** for efficient data processing, exploratory analysis, and result visualization.
- Enhanced model performance through **hyperparameter tuning** and **data augmentation** achieving **93% classification accuracy**, increasing generalization across diverse currency samples.

## Education

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California State University- EastBay

Master's, Computer Science

August 2023 - May 2025

CGPA: 3.8/4.0