



SIDDHI DEVIDAS WAGHMARE

B.Tech. - CSE - Artificial Intelligence & Analytics

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PROFESSIONAL SUMMARY

Final-year B.Tech student in Artificial Intelligence and Data Analytics with expertise in Python, Django, Angular, Machine Learning, NLP, and Data Analytics. Experienced in developing AI-powered applications, full-stack web solutions, and data-driven systems. IEEE-published researcher with a strong foundation in software development, cloud technologies, and Agile methodologies. Passionate about leveraging AI, analytics, and modern software engineering practices to build scalable and impactful solutions.

KEY EXPERTISE

Python C++ C Java(basics) JavaScripts TypeScript Django Angular SDLC AGILE Data Analysis
Data Mining Data Science NLP ML

EDUCATION

MIT School of Computing 2022 - 2026

B.Tech. - CSE - Artificial Intelligence & Analytics | CGPA: 8.11 / 10

Shri Gopinath Jr.college Varvand 2021

12th | HSC | Percentage: 92.50 / 100

Shri Gopinath Vidyalaya Varvand 2019

10th | SSC | Percentage: 87.20 / 100

PROJECTS

FINSPIRE: Real-Time Market Sentiment Analysis 20 Aug, 2025 - 23 Apr, 2026

Key Skills:

Python NLP Machine Learning FinBERT VADER SQLite Pandas Financial Analytics Sentiment Analysis

Developed FINSPIRE, a real-time financial market sentiment analysis platform using Python, FinBERT, and VADER. Implemented a dual-engine NLP pipeline to analyze live financial news headlines and generate sentiment insights for Indian stock market companies. Built an interactive Streamlit dashboard for real-time visualization, company-wise sentiment tracking, sentiment aggregation, and data persistence using SQLite. Integrated Google News RSS feeds, automated preprocessing, duplicate removal, and weighted sentiment fusion for improved accuracy. The project was successfully published as an IEEE research paper, demonstrating the practical application of NLP and Machine Learning techniques in financial sentiment analysis.

MailGlance – Gmail Summarizer with NLP

Key Skills: Python Flask Transformers Google API Integration NLP Text Summarization

Built a Flask-based web application that connects to Gmail using the Google API and summarizes long email threads through NLP techniques. Implemented semantic ranking using spaCy and transformer models to prioritize essential messages. Enhanced user productivity by enabling quick insights into lengthy conversations, reducing clutter, and improving time management in email handling.

Smart Recipe Recommender

Key Skills: Python NLP Machine Learning Data Preprocessing

Developed an AI-powered recipe recommendation system that suggests dishes based on user-input ingredients and dietary preferences. Leveraged NLP-based ingredient analysis and classification models to filter and recommend recipes dynamically. The system aims to minimize food waste and personalize cooking experiences through intelligent recipe suggestions.

Enterprise Content Workflow & Secure Client Portal

Key Skills: WordPress PHP CSS

Designed and developed an enterprise-grade content workflow system for document creation, review, approval, and publishing with role-based access control. Built a secure client portal enabling authenticated users to upload, download, and delete files with permission-based access. Implemented secure file handling, input validation, and audit logging to ensure data integrity, traceability, and confidentiality.

Enterprise Content Workflow & Publishing System

Key Skills: WordPress PHP Web Development CSS

Designed and developed an enterprise-grade content workflow platform enabling structured document creation, multi-level approvals, and controlled publishing. Implemented role-based access control to manage permissions across authors, reviewers, and publishers, ensuring secure collaboration, traceability, and scalable content operations.

PUBLICATIONS / RESEARCH / WHITE PAPERS

FINSPIRE: Real-Time Market Sentiment Analysis Using FinBERT and VADER

23 Mar, 2026

IEEE Conference Research Paper | 8th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2026)

Key Skills:

Python NLP Machine Learning FinBERT VADER Sentiment Analysis Financial Analysis Research Methodology

Co-authored and published an IEEE research paper titled "FINSPIRE: A Practical, Lightweight Pipeline for Real-Time Market News Sentiment Analysis" at the 8th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2026). Developed a dual-engine NLP framework combining VADER and FinBERT models to perform real-time sentiment analysis of financial news headlines. Designed and implemented a lightweight sentiment fusion pipeline, real-time news ingestion system, interactive analytics dashboard, and data persistence layer. The research demonstrated accurate and scalable financial sentiment analysis on commodity hardware without requiring expensive infrastructure, contributing to practical applications of AI and NLP in financial analytics.

URL: <https://ieeexplore.ieee.org/abstract/document/11493231>

MailGlance: A Web-Based System for Summarizing Email Content Using AI

16 May, 2025

Research Article | International Journal of Scientific Research and Advances (JSRA)

Key Skills:

Natural Language Processing (NLP) Text Summarization Transformer Models spaCy Flask Research Writing

This research paper presents MailGlance, a web-based AI system designed to summarize lengthy email threads and reduce information overload. The study identifies the growing problem of excessive email communication that hampers workplace productivity and proposes an NLP-based solution integrating semantic understanding and text summarization models.

URL: <https://ijsra.net/content/mailglance-web-based-system-summarizing-email-content-using-ai>

The research bridges the gap between traditional keyword-based filtering and intelligent content summarization, demonstrating improved efficiency in email management through empirical results and user feedback. The findings emphasize how AI-driven summarization can significantly enhance professional communication by enabling faster decision-making and information prioritization.

ASSESSMENTS / CERTIFICATIONS

Data Science Foundation

Provider: LinkedIn Learning

Key Skills: Data Science Data Mining Python Data Analysis Predictive Modeling

Gained a foundational understanding of data science principles and data mining techniques using Python. Explored methodologies for exploring, cleaning, and analyzing structured datasets to extract meaningful patterns and actionable insights.

JavaScript Programming

Provider: IIT Bombay Spoken Tutorial

Key Skills: Javascript Web Development DOM Manipulation Client side scripting

Learned core JavaScript fundamentals, including variables, functions, loops, and DOM manipulation through the IIT Bombay Spoken Tutorial. Gained hands-on experience in client-side scripting to build interactive and dynamic web applications.

AWS Academy Cloud Certificate

Provider: AWS Academy

Key Skills: AWS Services EC2 Amazon S3 Cloud Architecture Cloud Computing

Gained a foundational understanding of cloud computing concepts, core AWS services, security, architecture, pricing, and support models. Developed hands-on experience navigating the AWS Management Console and deploying basic cloud infrastructure, validating readiness for entry-level cloud roles and further specialized AWS certifications.

Prompt Design in Vertex AI

Provider: Google Cloud Skills Boost

Key Skills: Prompt Engineering Vertex AI Gemini Generative AI LLMs Multimodal AI

Earned Google's Prompt Design in Vertex AI skill badge. Gained hands-on experience in prompt engineering, Gemini models, multimodal AI applications, Vertex AI workflows, and responsible AI practices. Developed skills in designing, testing, and optimizing prompts for Generative AI solutions.

IT Specialist – Data Analytics

Provider: Certipoint (Pearson VUE)

Key Skills: Data Analytics Data Visualization Data Processing Statistics Business Intelligence

Validated proficiency in data analysis, visualization, data preparation, and deriving actionable insights from structured datasets using industry-standard analytics methodologies.

Generative AI

Provider: LinkedIn Learning

Key Skills: Generative AI LLMs AI Applications

Learned core concepts of Generative AI, Large Language Models (LLMs), prompt engineering, AI applications, limitations, and real-world use cases across industries.

SEMINARS / TRAININGS / WORKSHOPS

AI in Everyday Life: Smart Assistants to Autonomous Vehicles Institute Name: Tech Event

Key Skills: Artificial Intelligence Machine Learning Autonomous Systems AI Integration Computer Vision

Explores how Artificial Intelligence is transforming daily human activities — from smart assistants like Alexa and Siri that understand natural language, to advanced autonomous vehicles capable of real-time decision-making. Highlights AI's role in automation, personalization, and intelligent data-driven systems that enhance convenience and safety.

Cybersecurity & Ethical Hacking

Institute Name: MIT ADT University

Key Skills: Cybersecurity Ethical Hacking

Focused on understanding system vulnerabilities, network protection techniques, and ethical hacking practices. Covered penetration testing, risk assessment, and the responsible use of cybersecurity tools to strengthen digital defenses.

PERSONAL DETAILS

Gender: Female

Marital Status: Single

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