

KESHAV AGRAWAL

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SUMMARY

Technology and finance-focused undergraduate with hands-on experience in full-stack web development and financial data modelling. Skilled in building end-to-end systems that bridge quantitative finance and modern web technologies — from credit risk pipelines and SIP optimization engines to real-time dashboards and REST APIs. Passionate about using data science and software development to solve problems at the intersection of markets and technology.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, PHP, HTML, CSS, R, SQL

Web Development: HTML, CSS, Vanilla JavaScript, PHP, FastAPI, REST APIs, Chart.js, Responsive Design

Backend & Databases: PHP, MySQL, FastAPI, schema design, user authentication, session management

FinTech Concepts: Algorithmic Trading logic, Portfolio Optimization, Payment Gateway Integration (Razorpay, Stripe APIs)

Data Analysis & Visualization: Pandas, NumPy, Power BI, Microsoft Excel, Statistical Analysis, Data Cleaning & Preprocessing, Chart.js

Tools & Platforms: Git, GitHub, VS Code, Postman, OpenCV, Jupyter Notebook

Concepts & Methodologies: OOP, RESTful API Design, Time Series Forecasting, Computer Vision, Prompt Engineering

Languages: English (Proficient), Hindi, German (Elementary)

EDUCATION

CHRIST (Deemed to be University), Delhi NCR Campus, India

July 2024 – Present

Bachelor of Science (Honors), Data Science and Artificial Intelligence | GPA: 3.64/4.00 | Expected Graduation: May 2027

PROJECTS

Personal Budget Tracker– Full-StackWeb Application

Independent Project, 2026

- Built a full-stack personal finance tracker using PHP, MySQL, HTML5, CSS3, and Vanilla JS with secure session-based authentication, a transaction dashboard, and category-wise monthly budget limits with visual threshold alerts.
- Architected a normalized MySQL schema (users, categories, transactions, budgets) and wrote all backend PHP logic for CRUD operations, server-side validation, and relational financial reporting.
- Implemented dynamic DOM manipulation to eliminate page reloads for adding, editing, or filtering records — delivering a seamless, app-like experience entirely in Vanilla JavaScript.

SmartSIP – AI-Driven Dynamic SIP Accelerator

Team Project, 2026

- Built the complete web frontend (HTML/CSS/JS) with live Nifty 50 price charts via Chart.js, an animated market health gauge, a 30-day news sentiment trendline, and a dark/light mode toggle.
- Developed a FastAPI backend with three REST endpoints fusing LSTM price predictions and real-time news sentiment to compute a dynamic monthly SIP multiplier (0.25x–2.0x); integrated Llama 3.2 via Ollama for plain-English rationale at zero API cost.
- LSTM model achieved 1.40% MAPE and 80.3% regime accuracy across 5-fold walk-forward validation on 10 years of Nifty 50 data.

FaceMask Detection –DeepLearningComputer Vision

Team Project, 2026

- Developed the complete browser-based frontend (HTML/CSS/JS) with real-time detection overlays, bounding boxes, and confidence score displays for live model interaction and results visualization.
- Collaborated on training a CNN using TensorFlow/Keras with data augmentation; integrated the model with OpenCV for real-time webcam inference supporting both static image upload and live video stream modes.
- Packaged the system as a deployable application for real-world safety compliance monitoring in public and workplace environments.

Credit RiskModelling – Loan DefaultPrediction

Independent Project, 2026

- Built an end-to-end credit risk classification pipeline in Python using income, balance, repayment history, and credit utilization data; performed thorough EDA with Pandas to engineer features and handle missing values and outliers.
- Trained and compared Logistic Regression, Decision Trees, and Random Forest models; evaluated using AUC-ROC curves, precision-recall analysis, and confusion matrices to select the optimal approach for loan default prediction.
- Interpreted model outputs to generate actionable risk scores that assist financial institutions in evaluating borrower creditworthiness and minimizing exposure to high-risk lending decisions.

CERTIFICATIONS

The Complete Full-Stack Web Development Bootcamp – Udemy

Completed: January 2026

Financial Markets – Yale University x Coursera

Completed: March 2026