

UDAY KUMAR V

Bangalore

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SUMMARY

Aspiring Computer Science graduate with strong foundational knowledge in Machine Learning, Artificial Intelligence, Data Science, Data Analysis, and Project Management, along with practical exposure to software testing. Passionate about leveraging data-driven insights and intelligent systems to solve real-world problems. Eager to contribute to innovative technology teams and grow in a challenging, fast-paced environment. Expected to graduate in June 2025.

TECHNICAL SKILLS

- **Artificial Intelligence & Machine Learning:** Supervised and unsupervised learning, linear and logistic regression, decision trees, support vector machines, K-nearest neighbors, clustering, neural networks, model evaluation, scikit-learn, TensorFlow, Keras
- **Data Science & Analytics:** Data cleaning, data wrangling, exploratory data analysis, statistical analysis, hypothesis testing, feature engineering, data visualization (Matplotlib, Seaborn, Plotly), correlation analysis, A/B testing, metrics and key performance indicators (KPIs)
- **Data Analytics Tools:** Microsoft Excel (formulas, pivot tables, charts, data validation), Google Sheets, Power BI, Tableau.
- **Programming Languages:** Python, R, Java (basic), Shell scripting
- **Software Development:** Object-oriented programming, version control (Git, GitHub), REST APIs, debugging, modular design, software development life cycle (SDLC)
- **Web Technologies:** HTML, CSS, JavaScript (basic)
- **Database Management:** SQL, MySQL, database design, ER diagrams, CRUD operations, DBMS concepts
- **Software Testing:** Manual testing, test case writing, bug tracking, black-box testing, basics of Selenium, JUnit
- **Cloud Platforms & Hosting:** Google Drive API, Colab Pro, AWS EC2, AWS S3 (basic)
- **Development & Productivity Tools:** VS Code, Jupyter Notebook, Google Colab, Eclipse, PyCharm, Postman
- **Project Management & Collaboration:** Microsoft Project (basic), Trello, Jira (basic), Agile methodology, Kanban boards, stakeholder management, team coordination, Slack, Google Workspace (Docs, Sheets, Slides)
- **Technical Communication:** Report writing, presentation skills, documentation, clear articulation of complex concepts to both technical and non-technical stakeholders
- **Operating Systems:** Windows, basic Linux terminal commands
- **Soft Skills:** Team collaboration, problem-solving, communication, adaptability, time management, attention to detail, critical thinking

ACADEMIC AND INDEPENDENT PROJECTS

- **AI-Powered Virtual Assistant for Task Automation:**
Designed a voice-enabled assistant using Python and NLP to automate tasks such as sending emails and performing desktop operations. Integrated APIs and built a GUI with Tkinter.
Tools: Python, Pandas, OpenPyXL, AWS, Tkinter, NLP
- **Stock Market Analysis and Price Prediction:**
Built ML models including LSTM for time-series forecasting of stock prices based on historical and sentiment data. Deployed performance visualization dashboards.
Tools: Python, TensorFlow, NumPy, Pandas, Django, MATLAB
- **Online Attendance Management System:**
Developed a full-stack web app using HTML, CSS, JavaScript for UI, and Java + MySQL for backend. Included live tracking, reports, and alerts.
Tools: Java, HTML5, CSS3, JS, MySQL
- **E-commerce Website Testing Automation (E-bay):**
Built automated Selenium scripts to test login, search, and checkout functionalities. Reduced manual effort by 60%.
Tools: Selenium WebDriver, Python
- **Web Scraping of Flipkart Product Data:**
Automated scraping of product listings, reviews, and pricing using Selenium. Exported results to CSV for analysis.
Tools: Selenium, Python
- **Portfolio Management and Financial Analysis Tool:**
Created a Python tool to calculate XIRR, market value, and gains using FIFO. Exported performance reports in HTML.
Tools: Python, NumPy, HTML, CSS, Financial Analysis

FREELANCE EXPERIENCE

- **Full-Stack Developer | Kalakaar** May 2025
Developed a responsive full-stack website with an integrated machine learning model for real-time color prediction. Implemented user-friendly UI/UX, RESTful APIs, and end-to-end functionality including model deployment and database management.

CERTIFICATIONS

- Python Certification — Infosys Springboard
- UI/UX Foundations by Google — Coursera
- Backend Development by Meta — Coursera
- SQL Certification — Udemy
- Data Analytics — Udemy
- Machine Learning — Udemy
- Entity Relationship Modeling — Infosys Springboard
- Generative AI Overview for Project Managers — Project Management Institute

INTERNSHIP EXPERIENCE

Data Analytics Intern

Pantech Solutions

- Applied Python (NumPy, Pandas, Matplotlib, Seaborn) and SQL (MySQL, MongoDB) for large-scale data manipulation and analysis.
- Developed predictive models using machine learning and deep learning techniques, including CNNs for COVID-19 detection.
- Implemented Natural Language Processing (NLP) methods for tag identification and text analysis.
- Created interactive dashboards and visualizations using Tableau and Power BI to communicate data-driven insights.
- Gained hands-on experience with data preprocessing, model evaluation, hyperparameter tuning, and cloud deployment concepts.
- Worked with deep learning frameworks such as TensorFlow and Keras.

Project Management Trainee

Siemens Mobility — Forage Virtual

- Completed a comprehensive project management simulation focused on rail infrastructure projects.
- Designed strategic KPIs to monitor project performance aligned with organizational goals.
- Utilized Microsoft Excel and data visualization techniques to create and present project dashboards.
- Demonstrated adaptability and problem-solving through stakeholder management and simulated challenges.

Full Stack Java Developer Intern

Cranes Varsity, Bangalore

- Developed a web-based Student Attendance Management System using full-stack Java.
- Designed frontend with HTML, CSS, JavaScript; backend implemented using Java and MySQL.
- Key features included live attendance marking, report generation, and alert notifications.

Deep Learning Intern

Pantech Solutions

- Completed a 30-day internship focused on practical deep learning applications.
- Gained experience with neural networks, CNNs, RNNs, LSTM, Transfer Learning.
- Worked with TensorFlow, PyTorch, Keras, MXNet, and Caffe frameworks.
- Developed and deployed real-time applications including Face Mask Detection, Social Distance Monitoring, Diabetes Prediction, YOLO Object Detection & Image Segmentation.

EDUCATION

- **HKBK College of Engineering, Bangalore**
Bachelor of Engineering in Information Science and Engineering
2021 – 2025 CGPA: 8.06 / 10
- **Relevant Coursework:** Data Structures, Computer Networks, DBMS, Operating Systems, Python, MongoDB, AngularJS

ACHIEVEMENTS

- 2nd Place in Inter-Department Web Designing Competition – Received cash prize
- Final Year Project funded by Karnataka State Council for Science and Technology (KSCST)

PUBLICATIONS

- **The Progression of ChatGPT: An Evolutionary Study from GPT-1 to GPT-4**, *MAT Journals Pvt. Ltd., Volume 3, Issue 3, 2024*
- Presented research paper “AI-Powered Virtual Assistant Enhanced Productivity” at NCIT-2025, organized by ISTE and HKBK College of Engineering, Bengaluru, April 11–12, 2025