

Kalpna Kushwaha

Software Engineer | Machine Learning | Data Analytics | Full-Stack Development

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EDUCATION

- **KIET Group of Institutions, Ghaziabad, Uttar Pradesh** (8.36 CGPA) 2021-2025
B.Tech, Computer Science & Information Technology
- **Kendriya Vidyalaya Vigyan Vihar, New Delhi, Delhi** 12th CBSE (95%) 2020-2021

PROJECTS

- NeuroNotes – Smart Notes App with NLP** (Ongoing)
 - Built a full-stack notes app with summarization (DistilBART), keyword tagging (KeyBERT), and semantic search.
 - Integrated Markdown rendering, PDF export, dark mode, and a scalable FastAPI backend.
 - Tech stack: React, FastAPI, Hugging Face, KeyBERT, SQLite, MUI.*
 - [🔗 GitHub](#)
- Brain Tumor Detection using Pre-Processing Techniques** (Dec 2023–Mar 2024)
 - Applied denoising techniques (TV, BM3D, NLM) on MRI scans and implemented CNN, SVM, and MobileNetV2 models.
 - Developed a stacked ensemble model that outperformed individual classifiers in tumor classification accuracy.
 - Co-authored a Scopus-indexed research paper and published a patent.
 - Tech stack: Python, OpenCV, TensorFlow.*
 - [🔗 GitHub](#)
- Employee Attrition Prediction Dashboard** (Apr 2024)
 - Built a predictive dashboard using logistic regression to estimate attrition risk based on HR data.
 - Deployed with Shiny: real-time prediction, ROC/AUC evaluation, and dynamic plotting by user-selected variables.
 - Handled end-to-end pipeline: data cleaning, feature selection, model training, and web app integration.
 - Tech stack: R, Shiny, caret, ggplot2, pROC.*
 - [🔗 GitHub](#)

CERTIFICATIONS & COURSES

- Career Essentials in Generative AI – Microsoft & LinkedIn (2025) [🔗 link](#)
- AWS Academy Cloud Foundations (2024) [🔗 link](#)
- Career Essentials in Data Analysis - Microsoft and LinkedIn (2024) [🔗 link](#)
- NPTEL: AI- Search Methods for Problem Solving (2024) [🔗 link](#)

INTERNSHIP & EXPERIENCE

- Freelance Frontend Developer – Life Coach Website** (Jan 2025 - Present)
 - Developed a responsive coaching website for a real client using modern frontend technologies.
 - Built modular UI components with dynamic client-side routing, a testimonial carousel, and mobile-first styling.
 - Integrated EmailJS for a working contact form and added downloadable PDFs for user engagement.
 - Tech stack: React, Vite, React Router, CSS, EmailJS*
- AICTE CISCO Virtual Internship Program 2024** (July 2024)
 - Completed a 1-month virtual internship focused on cybersecurity essentials and Cisco Packet Tracer simulations.
 - Gained hands-on experience in network protocols, threat detection, and secure configurations.
 - Tech stack: Cybersecurity, Cisco Packet Tracer*

TECHNICAL SKILLS

- **Languages:** Python, Java, C, R, SQL, HTML, CSS, JavaScript
- **Frameworks & Libraries:** React.js, Pandas, NumPy, FastAPI, TensorFlow
- **Tools & Platforms:** Git, GitHub, Power BI, VS Code, RStudio, Shiny
- **Domains & Technologies:** Machine Learning, Data Analytics, Web Development

ACHIEVEMENTS

- Co-author, Scopus-indexed paper on early brain tumor detection (Taylor & Francis, Oct 2024)
- **Patent Published:** “Tumor Trace System for Tracking Tumors with AI”, Application No. 202511031522 A, April 2025