Vanshpreet Kaur Khanuja

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EDUCATION

VIT Bhopal University – Bhopal, MP
B.Tech. in Computer Science Engineering, Cloud Computing & Automation | Sep 2022 – Present | CGPA: 8.95

Delhi Public School – Bhopal, MP
Class XII – CBSE Board | Apr 2021 – May 2022 | Score: 96%
Class X – CBSE Board | Apr 2019 – Mar 2020 | Score: 95.2%

PROJECTS

@index – AI–Powered Job Matching Platform – React.js, Node.js, Express, MongoDB, Adzuna API, NLP, Vercel (Frontend), Render (Backend)

- Developed a skill–based job matching app to connect users with 500+ roles via real-time filtering
- Optimized Node.js backend and **MongoDB** performance to ensure scalable and responsive API delivery
- Designed backend infrastructure for future **NLP/LLM** integration to improve recommendation precision
- **Impact:** Transformed the job search process through intelligent skill mapping and automation

Classification of Sleep stages and Identification of insomnia – Python, MNE, Scikit–Learn, Matplotlib, Random Forest, SVM, Stratified K Fold

- Analyzed **197 EEG** recordings from **Sleep-EDF** and performed feature engineering to boost performance
- Classified sleep into three stages — **Wake, REM, and Non-REM** — to enable insomnia detection
- Engineered a Python-based pipeline using **MNE** and **Scikit-Learn**, improving model accuracy by up to 4.77%
- Achieved final performance: **SVM – 90.75%**, **RF – 86.93%**, **BN – 81.89%**
- **Impact:** Enabled automated, faster, more accurate sleep disorder diagnosis for medical use

Chad GPT – REACT, Next.js, Vercel, Open AI, Tailwind CSS

- Built a real-time AI generator with OpenAI APIs to produce 3 types of content: **audio, text and video**
- Enabled content creation **3× faster** than manual processes
- Constructed an optimized architecture to balance content quality and responsiveness
- Deployed using **React**, **Next.js**, **Vercel**, and **OpenAI** for a seamless user experience
- **Impact:** Empowered creators with next–gen AI tools for professional–grade media production

WORK EXPERIENCE

- **Intern – India Space Lab |** Dec 2024 – Jan 2025
  Worked on Can Sat and drone-based astronomy projects simulating satellite deployments
- **Management Intern –** White Canvas India | Dec 2024
  Coordinated operational planning & digital outreach for Young CEO Program

TECHNICAL SKILLS

- **Programming:** Java, Python, C++, SQL, HTML CSS, JavaScript – React/Next.js
- **Cloud/AI:** AWS Solutions Architect, Google Cloud, OpenAI API
- **Data Science:** Pandas, NumPy, Matplotlib, Scikit–Learn
- **Tools:** Git, Docker, MongoDB, Android Studio, Figma
- **Certifications:** IBM GEN AI Using IBM Watsonx, AWS Solutions Architect–Associate Certification Program, Coursera HTML/CSS/JavaScript (Johns Hopkins University), Python Programming (Vidyarthi Program)

EXTRA–CURRICULARS

- **Non–Technical Lead –** Cloud Zone Club | Jan 2025 – Present
- **Research Lead –** Stats–O–Locked (Statistics Club) | Mar 2024 – Jan 2025
- Completed a **50-day LeetCode** challenge, solving 50+ DSA problems in arrays, strings, and trees.
- **Student Council –** Led student council for 4 years, promoting discipline and organizing student initiatives
- Received academic scholarship for being in the top percentile of school performers in Class X and Class XI.
- Awarded Outstanding Performance in Arts