

Vanshpreet Kaur Khanuja

+91 9179488352 | vanshpreet.kaur@gmail.com | [LinkedIn](#) | [GitHub](#)

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 – Skill Based Job Matching Platform – React.js, Node.js, Express, MongoDB, Adzuna API, Vercel, Render

- Built a job matching app that connects users to 500+ roles through real-time skill-based filtering
- Optimized Node.js backend and **MongoDB** performance to ensure scalable and responsive API delivery
- Architected backend to support future NLP/LLM integration for smarter job recommendations
- **Impact:** Transformed the job search process through intelligent skill mapping and automation

Classification of Sleep Stages and Detection of Insomnia – MNE, Scikit-Learn, Matplotlib, Stratified K Fold

- Analyzed **197 EEG** recordings from **Sleep-EDF** and engineered features to enhance classification accuracy
- Classified sleep into three stages –**Wake, REM, and Non-REM** – to enable insomnia detection
- Engineered a pipeline (MNE, Scikit-Learn) boosting model accuracy by 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, OpenAI, Tailwind CSS

- Built a real-time AI generator using OpenAI APIs to produce 3 types of content: **audio, text, and video**
- Streamlined content production, delivering output 3× faster with consistent quality
- Designed efficient architecture to ensure content quality and fast response
- 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
Analyzed 15+ agricultural drone applications—from crop monitoring to precision spraying using DJI Agras
- **Management Intern** – White Canvas India | Dec 2024
Coordinated operational planning and digital outreach for Young CEO Program

TECHNICAL SKILLS

- **Programming:** C++, Python, SQL, HTML, CSS, Java, 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

- [AWS Academy Graduate – AWS Academy Cloud Foundations](#)
- [AWS Academy Graduate – AWS Academy Cloud Architecting](#)
- [Gen AI Using IBM Watsonx](#)
- HTML/CSS/JavaScript (Johns Hopkins University)

EXTRA-CURRICULARS

- **Non-Technical Lead** – Cloud Zone Club | Jan 2025 – Present
- **Research Lead** – Stats-O-Locked (Statistics Club) | Mar 2024 – Jan 2025
- Revitalized student programs through 4 years of Student Council leadership
- Awarded academic scholarship for ranking in the top percentile of school performers