# KAMLESH BAHETI

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## EDUCATION

**Bachelor of Technology in Computer Science and Engineering** — **81.40%**
*Dr. A. P. J. Abdul Kalam Technical University, Lucknow* — *2021 - 2025*

**Intermediate** — **82.80%**
*Board of Secondary Education, Rajasthan* — *2020*

**Matriculation** — **86.00%**
*Board of Secondary Education, Rajasthan* — *2018*

## PROFESSIONAL EXPERIENCE

**Indian Institute of Technology, Mandi** — **Feb 2025 - Aug 2025**
*Research Intern* — *Mandi, HP, IN*

- Worked as a Research Intern in the **DRDO-funded LSRB-DIPR Project** at the *Adaptive Cognitive Science Lab*, **IIT Mandi**.
- Co-authored "*Forecasting EEG-Based Attention Across Multiple Horizons for Proactive Brain-Computer Interfaces.*"
- Developed an **Adaptive Tower of Hanoi** (2D game) and core modules for **Search & Destroy VR Simulation**.
- Designed and implemented **CNN+LSTM** models achieving **80% accuracy** in multi-step Focus Index prediction using EEG.

**Ernst & Young (EY)** — **Apr 2024 - Jun 2024**
*Tech Consulting Intern* — *Gurugram, IN*

- Worked under the **PMU** of the **Ministry of Social Justice and Empowerment, Government of India**.
- Built a **Flask-based web application** to assess mental health in 300+ students, integrating ML-based sentiment analysis.
- Achieved **87% accuracy** in detecting anxiety, stress, and depression, delivering insights within 5 seconds.
- Tools & Technologies: *HTML/CSS, JavaScript, Python, Flask, Sentiment Analysis, SQLite*

## PROJECTS

**Touchless Tech** [Link] (*Python, MediaPipe, Gemini, Speech Recognition, NLP, Eel, JavaScript*)
- Developed a real-time **gesture-driven (MediaPipe)** and **voice-enabled (Gemini AI)** system for touchless desktop interaction.
- Implemented intuitive controls including **Single/Double Click, Volume & Brightness Adjustment, Drag & Drop**, etc.

**Handwritten Digit Recognition using MNIST** [Link] (*Python, OpenCV, Keras, TensorFlow, Pygame, Pyttsx3*)
- Built a **neural network model** achieving **98%** accuracy in **recognizing** and **vocalizing handwritten digits** within **50ms**.
- Applied data preprocessing, dimensionality reduction, and classification using **logistic regression** and **deep learning**.

**Autism Detection Model for Early Childhood Screening** [Link] (*SVM, Matplotlib, Seaborn, Jupyter Notebook*)
- Designed and trained an **SVM** model to identify potential signs of autism in children (ages 0-3), achieving **93%** accuracy.
- Presented the findings at **Health-A-Thon**, **Lloyd College of Pharmacy, Greater Noida, 2023.**

## FREELANCING PROJECTS

- https://resqwrite.github.io/
- https://anshulrathee.github.io/

## TECHNICAL SKILLS

**Languages:** C, C++, Python, HTML5, CSS3, JavaScript
**Frameworks and Libraries:** Angular, Bootstrap, GSAP, TensorFlow/Keras, OpenCV, Seaborn, Pygame, Flask, Inquisit
**Databases:** MySQL, SQLite
**Core Competencies:** Data Structures, Object-Oriented Programming, Machine Learning, Web Development, RESTful APIs

## ACHIEVEMENTS

- Ranked in the **top 15% on LeetCode** with a peak rating of 1665 and solved 950+ algorithmic problems.
- Led coding events as **Secretary of HexClan Coding Club**, collaborating with Unstop and engaging 1000+ participants.
- Secured **1st Runner-Up** in the 24-hour **Code-A-Thon** at LIET, 2023.
- Mentored 1st-semester diploma students in FCIT, resulting in a 100% pass rate in semester exams.

## CERTIFICATIONS

- **AWS** – re/Start Graduate
- **Google** – IT Automation with Python
- **IBM** – Data Science Methodologies
- **Cisco** – Networking Essentials