KAMLESH BAHETI

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SUMMARY

Aspiring **Software Engineer** with strong **problem-solving skills** and hands-on experience in **AI**, **ML**, and **Web Development**. Proficient in **C**, **C++**, **Python**, **AngularJS**, and **Data Structures**, with a proven track record of leveraging tools like **ChatGPT** for **process automation**, boosting efficiency by **25%**. Skilled at writing **high-performance code**, solving **real-world complex problems** 40% faster, and driving innovation in **Generative AI** and **Machine Learning** through **high-impact projects**.

EDUCATION

Bachelor of Technology in Computer Science and Engineering — 81.20%
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 - Present**
Research Intern — *Mandi, HP, IN*

- Contributing to the **DIPR-LSRB** project by **DRDO** to develop **2D & 3D cognitive training games** using **Inquisit**, enhancing decision-making speed by 30%.
- Designing models to analyze **adaptive and cognitive patterns**, enhancing assessment accuracy by 25%.
- Conducted user testing and data analysis, **boosting game efficiency and engagement** by 40%.

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

- Worked under the **PMU** of the Ministry of Social Justice and Empowerment, Government of India, to develop a **Flask-based web application** to assess the mental health of 300+ students using **sentiment analysis**.
- Achieved **87% accuracy** in analyzing anxiety, depression, and stress levels, delivering real-time insights to 200+ students **within 5 seconds**.
- **Integrated SQLite** for 500+ student profiles, enabling early mental health issue detection in 80% of participants.
- Technologies used: **HTML5, CSS3, JavaScript, Python, Flask, Sentiment Analysis, SQLite**

TECHNICAL SKILLS

Languages: C/C++ . Python . HTML5 . CSS3 . JavaScript
Frameworks and Libraries: Angular . GSAP . Bootstrap . TensorFlow . Keras . OpenCV . Seaborn . Pygame . Inquisit
Databases: MySQL . MongoDB . SQLite
Core Competencies: Data Structures . Machine Learning . Web Development . RESTful APIs . Software Engineering

PROJECTS

Glitch 2.0 (*Python, Microsoft Azure API, OpenAI, Speech Synthesis, NLP*)
- Integrated **Azure's OpenAI API** for **speech synthesis** and **NLP**, improving response accuracy by **30%**.
- Automated system processes and application control, presenting findings while demonstrating an **AI-driven** automation solution at **ICT Academy Infosys Training Sessions**.

Handwritten Digit Recognition using MNIST (*Python, OpenCV, Keras, TensorFlow, Pygame, Pyttsx3*)
- Built a model that achieved **98%** accuracy in **recognizing** and **vocalizing handwritten digits** within **50ms** per prediction.
- Included data preprocessing, dimensionality reduction, and classifier evaluation using **Regression** and **Neural Networks**.

Autism Detection Model for Early Childhood Screening (*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.

Account Management System (*C++, Object-Oriented Programming, File Handling*)
- Innovated a terminal-based system for account management using **file handling** for **encrypted password storage**.
- Applied **input validation** and **OOP principles** for creation, modification, search, and deletion features.

CERTIFICATIONS

- Cisco Networking Essentials Certification
- Google IT Automation Course with Python
- IBM Certification in Data Science Methodologies