Nitesh Mhatre

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- github.com/Nitesh-OP

SUMMARY

Highly motivated and skilled IT professional with a strong foundation in **Full Stack Development, AI, and Cybersecurity**. Proficient in **Python, Java, C++, SQL, and web technologies**, with hands-on experience in **machine learning (TensorFlow, Keras), database management (MySQL), and IoT platforms**. Passionate about problem-solving, automation, and developing scalable, user-centric solutions. Adept at **collaborating in teams, adapting to new technologies, and delivering efficient results**. Certified in **Network Security, Data Science, and Ethical Hacking**, with a keen interest in **AI-driven applications and cloud computing**. Eager to leverage technical expertise and innovative mindset to contribute to dynamic IT projects as a fresher.

KEY SKILLS

Programming Languages: Python, SQL, C++, Java

Web & IoT Platforms: Arduino IDE, Blynk IoT, Tkinter GUI

Database Management: MySQL

Tools & Frameworks: TensorFlow, Keras, OpenCV, Image Data Generator, OpenCV

Data Handling: NumPy, Pandas, Matplotlib

Cybersecurity: Network Security, Ethical Hacking, Penetration Testing

Tools & Software: Jupyter Notebook, Google Colab, Git, Excel

PROJECTS

AI-Powered Age Calculator

A smart age calculator that offers personalized age-based suggestions.
•Delivered accurate results using secure MySQL data handling with 99.9% reliability.
•Responsive design tested across 10+ devices for consistent user experience

Tech Stack: HTML, CSS, JavaScript, PHP, MySQL

Waste Classification Using Convolutional Neural Network (CNN)

Built a CNN-based image classification system to identify waste as Organic or Recyclable.
• Designed a custom CNN architecture with convolutional, pooling, and dropout layers to enhance accuracy and reduce overfitting.
• Used OpenCV and Keras for image preprocessing and data augmentation.
• Developed a real-time prediction pipeline for classifying new images effectively.
• Visualized training performance using class distribution, accuracy, and loss graphs.

Tech Stack:*: Python, TensorFlow, Keras, OpenCV, Matplotlib, NumPy, Pandas, Kaggle*

SafeDrive AI – Distracted Driver Detection

Built a ResNet50-based CNN model to classify driver behavior into 10 categories (e.g., texting, drinking, safe driving).
•Trained on 22K+ images with Leave-One-Group-Out cross-validation to improve generalization.
• Achieved 86.95% training accuracy and 40.68% validation accuracy after 10 epochs

Tech Stack: Python, TensorFlow, Keras, OpenCV, CNN, ResNet50

PROFESSIONAL EXPERIENCE

Testing & Debug Engineer   Feb '22 - Sep '22

Selec Controls Pvt. Ltd. (Contract via Ayushi Enterprises)   Ghansoli, Navi Mumbai

- **Tested and debugged** electronic circuits using **multimeters, oscilloscopes, and diagnostic software**, ensuring 100% functionality and performance optimization.
- **Conducted quality control (QC) inspections** to verify compliance with **industry standards (e.g., ISO, IPC)**, reducing defects by [X%] through rigorous testing protocols.
- **Programmed and validated** system functionality using computer-based tools, ensuring seamless firmware integration and operational efficiency.
- **Documented test results and defects** in **Excel and job sheets**, streamlining reporting processes and improving traceability for corrective actions.

CERTIFICATIONS/TRAINING

- Certified Network Security Specialist (CNSS) – International Cyber Security Institute (ICSI)
- Python for Data Science – IBM
- Cybersecurity Certification – Tech Mahindra
- Python with Advanced AI – Skill India
- Programming Certification (Java, C++, Python, Linux) – IIT Bombay

Languages

- English – Proficient

- Hindi – Native / Fluent
- Marathi – Native / Fluent

EDUCATION

Bachelor of Engineering (B.E.) – Computer Engineering   Jul '22 - Jun '25

University of Mumbai

Diploma in Electronics Engineering   Jun '19 - May '22

Government Polytechnic, Mumbai