Ketan Kumar Bagewadi

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PROFESSIONAL SUMMARY

Software Developer skilled in **Python**, **Machine Learning**, **NLP** and **Backend Development**. Experienced in building production-grade AI systems for **phishing detection**, **website classification** and **large-scale automation pipelines**. Aiming to contribute in **AI/ML** or **Software Engineering** roles to deliver reliable and scalable applications.

EXPERIENCE

Smile Security & Surveillance Pvt. Ltd. *Mar 2025 - Present*

- Implemented Prometheus for real-time monitoring of ML model performance, inference latency, and resource utilization across production ML systems handling live phishing detection traffic.
- Designed Grafana dashboards to visualize key machine learning metrics including model accuracy, data drift, and prediction trends, improving monitoring visibility and troubleshooting speed by over 40%.
- Configured Dynatrace for end-to-end observability and automated monitoring of pipelines and LLM-based applications, enabling 30% faster issue detection in production environments.
- Software Developer working on **Python**, **Machine Learning** and **Deep Learning** to detect and flag **phishing and malicious websites**. Achieved 95%-97% accuracy in detecting true phishing websites on live traffic.
- Designed and deployed dual production website classification for **40+ categories** using **Llama 3.1 8B** and 250+ thread **Selenium** pipeline and implemented using the **Sentence-t5-xxl NLP** model and zero-shot classification.
- Deployed **CRM** system using **Python, Django, Django REST Framework, JavaScript, Ajax, Linux, Nginx, Azure Directory, DigitalOcean Droplet** and **PostgreSQL** with 2+ database servers.
- Built a python-based network anomaly detection system using DNS and NetFlow data with rule-based + **LLM (Meta-Llama-3.1 8B**) to detect cyber threats.

PROJECTS

DeepFake Detection | Python, Google Colab, PyTorch, HTML, CSS, JavaScript Github Link

- Developed a **deepfake detection** project utilizing **deep learning** techniques. Employed the **FaceForensics++** and **Celeb-DF** database to train a robust **machine learning** model. Implemented an architecture combining **ResNeXt** and **LSTM** models for accurate identification and classification of deepfake videos.

Online Learning Platform | HTML, CSS, PHP, php MyAdmin, SQL Github Link

- Developed an Educational Platform featuring a diverse range of competitive exam questions, providing a dynamic environment for practice. A **database** project that is fully operational, providing functionality for both adding and retrieving data from the database with full flexibility.

AI ChatBot Android App | Android Studio, Java, Firebase, Google PaLM-2 API Github Link

- Developed an Android application capable of processing text input and generating responses to a wide range of questions using the Google PaLM-2 API, with ChatGPT-like conversational capabilities.

TECHNICAL SKILLS

Languages: Python, C | **Frameworks & Libraries:** PyTorch, Scikit-learn, Pandas, Django REST Framework, Bootstrap, TailwindCSS | **Databases:** PostgreSQL, MySQL | **DevOps:** Docker, Nginx, DigitalOcean **Cloud:** AWS | **Version Control:** Git, GitHub | **Other:** Unix/Linux, Machine Learning, Deep Learning, NLP, Data Analysis, Web Scraping, LLM, Bert, RAG, Llama, Prompt Engineering, AI Tools (ChatGPT, Claude AI, Grok AI, Google AI, Cursor, Mistral AI)

EDUCATION

Bachelor of Engineering in Computer Science & Engineering

KLE Dr. M.S. Sheshgiri College of Engineering and Technology, Belgaum, Karnataka **June 2024**

CERTIFICATIONS

AWS Cloud Practitioner Essentials Course **(Amazon)**, Introduction to Python **(Sololearn, Infosys Springboard)**, Introduction and Intermediate SQL **(Great Learning)**, Generative AI **(GeeksforGeeks)**, Introduction to Data Science **(Cisco)**