Abhinav Viswanathula

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SKILLS

- **Languages**: Python, HTML, CSS, SQL, JavaScript
- **Libraries**: TensorFlow, PyTorch, scikit-learn, Plotly, pandas, Matplotlib, Seaborn, NLTK
- **Tools/Platforms**: MySQL, Power BI, Streamlit
- **Concepts**: Machine Learning, Deep Learning, NLP, RAG, EDA, Gen AI, Agentic AI

INTERNSHIP

Vaishnav Technologies   Jul '25 - Oct '25
Machine Learning Intern

- Performed comprehensive EDA on COVID-19 dataset, uncovering trends and insights for public health impact.
- Cleaned, organized, and visualized large-scale vaccination data to reveal country-wise and demographic vaccination patterns.

Tech stacks used: Python, SQL, Power BI, Streamlit, Flask, Matplotlib, Seaborn

Labmentix   Jun '25 - Sep '25
Machine Learning Intern

- Developed ML and analytics solutions for real-world datasets using Power BI, ML/DL frameworks.
- Delivered key projects in vaccination analytics, NLP-based toxicity detection, financial forecasting, image classification (CNNs), and user insights modeling.
- Implemented end-to-end data workflows and interactive web dashboards to automate insights and reporting.
- **Tech stacks used**: Python, SQL, Power BI, PyTorch, Streamlit, Flask, NLTK, Matplotlib, Seaborn

PROJECTS

RAG Powered Chatbot Application   Jun '25 – Aug '25

- Developed an AI Chatbot app in Streamlit using RAG and LLMs for interactive Q&A on large PDF Documents.
- Implemented automated summarization, embedding generation and chunked processing for efficient large-scale document analysis.
- Integrated OCR, suggested question generation, and downloadable chat history to enhance user experience.

Tech: Python, Streamlit, Groq LLM, Hugging Face, FAISS, OCR(Tesseract, Poppler), PyPDFLoader

PhonePe Transactions & User Insights   May '25 – Jul '25

- Created an interactive analytics dashboard visualizing transaction and user data to reveal digital payment trends across regions and time periods.
- Developed dynamic filtering and geographic analysis features to provide actionable insights on transaction volumes, amounts, and user behaviors.

Tech: Python, Streamlit, Pandas, Plotly, MySQL, SQLAlchemy, Seaborn, Matplotlib

Brain Tumour Classification Based On MRI   Apr '25 – Jun '25

- Trained and optimized multiple CNN models, including EfficientNet-b0, achieving 95% validation accuracy for multi-class brain tumor classification using MRI images.
- Implemented comprehensive data augmentation and preprocessing pipelines for robust training on imbalanced medical imaging datasets.
- Developed Flask-based web application for tumor prediction, enabling image upload, real-time inference, confidence scoring, and downloadable PDF reports.

Tech: Python, PyTorch, torchvision, EfficientNet, timm library, Flask, PIL, ReportLab, CUDA (GPU), NumPy

CERTIFICATES

- Data Analytics Specialization – By Google   Nov '25
- Machine Learning – By Stanford University & DeepLearning.AI   Feb '25

EXTRA-CURRICULAR ACTIVITIES

- President – Brain Masters Analytical Club – LPU   Since Aug '24
- Secured 2nd Place in Analytical 1.0 – A Competitive Event on Speed Checking   Sep '24

EDUCATION

Lovely Professional University   Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 6.42   *Since Aug '23*

Bhashyam Junior College   Guntur, Andhra Pradesh
Intermediate; Percentage: 87   *Apr '21 – Mar '23*

Bhashyam Educational Institutions   Guntur, Andhra Pradesh
Matriculation; Percentage: 100   *Apr '20 – Mar '21*