Jayanth Bhansali

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EDUCATION

University of Maryland   *College Park, MD, USA*
Master of Science, Data Science   *Expected Graduation: 05/2026*
Coursework: Probability & Statistics | Principles of Data Science | Principles of Machine Learning | Big Data Systems | Data Representation & Modeling | Algorithms for Data Science

BNM Institute of Technology   *Bengaluru, India*
Bachelor of Engineering, Computer Science and Engineering   *08/2017 – 08/2021*
Coursework: Engineering Mathematics | Linear Algebra | Machine Learning | Big Data Analytics

TECHNICAL SKILLS

- **Programming Languages:** Python (NumPy, Pandas, SciPy), C/C++
- **Machine Learning & AI:** NLTK, PyTorch, TensorFlow, Keras, Scikit-Learn, CNNs, SVM, Logistic Regression, Generative AI, LLMs, Transformers, Prompt Engineering, RAG, LangChain, Hugging Face
- **Data Analysis Tools:** SQL, MongoDB, Power BI, Qlik Sense, Matplotlib, Seaborn
- **Development Tools:** AWS, Git/GitHub, Jupyter Notebook, VSCode, AngularJS

EXPERIENCE

Infosys Limited   *Bengaluru, India*
Business Intelligence Developer   *09/2021 – 05/2023*
- Designed, developed and deployed Qlik Sense dashboards for a global shipping company, automating performance tracking and analysis of business trends and revenue growth, reducing manual work by over 45 hours daily.
- Engineered a Cycle Idle Monitoring dashboard to track vessel idle time, integrating Detention & Demurrage (D&D) charge calculations for real-time operational efficiency and client reporting.
- Optimized ETL scripts, reducing dashboard reload time by 70% by reworking data models, optimizing QVD loads, and restructuring queries for improved performance.
- Implemented automated trigger checks to prevent execution failures caused by calendar-based scheduling issues, ensuring continuous data availability and mitigating data loss risks.
- Presented and demonstrated dashboard objectives and functionality to business stakeholders, enabling data-driven decision-making.

Business Intelligence Trainee   *02/2021 – 05/2021*
- Received training in Big Data tools such as Power BI, SQL, MongoDB, and advanced MS Excel.
- Applied skills to design and develop interactive reports and dashboards, improving data analysis and visualization capabilities. Gained proficiency in Microsoft SQL Server services like SSIS, SSAS, and SSRS.

Tata Consultancy Services (TCS)   *Remote – India*
Software Developer Intern   *07/2020 – 10/2020*
- Developed a web application using MEAN stack, enabling users to reserve shopping slots and reducing in-store congestion.

PROJECTS

Stream Your Mood – Best Project Award   *09/2020 – 04/2021*
Recommends Music based on Facials Expressions providing a better music experience
- Implemented HAAR Classifier with VGG16 architecture for facial expression recognition using Python and TensorFlow, achieving 66.5% accuracy in emotion detection.
- Employed Convolutional Neural Networks (CNNs) for music classification, achieving 83.2% accuracy in identifying music genres.
- Publication: ***Music Recommendation Based on Facial Expression*** in IJLTEMAS, Volume IX, Issue XI, November 2020

TezFarming   *01/2020 – 05/2020*
Assists farmers in identifying leaf pest infestations
- Conducted a comparative analysis of CNN architectures: AlexNet, Inception-V3, ResNet-50, and VGG-16 for early-stage leaf pest identification in crops, with potential applications in agricultural health.
- Conducted data preprocessing and augmentation to enhance model accuracy and robustness.
- Publication: ***Plant-Wise Comparison of Various CNN Algorithms for Detection of Pest Infestation*** IEEE Pune Section International Conference (PuneCon), 2021