# YASH BISHNOI

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## OBJECTIVE

Dynamic AI/ML Developer passionate about creating and implementing innovative solutions across computer vision and natural language processing. Proven ability to develop complex deep learning models for tasks like 3D image reconstruction and multi-class classification, and to build efficient NLP applications with CI/CD deployment. Experienced with Python, PyTorch, Hugging Face, AWS, and Docker, ready to contribute to cutting-edge projects.

## EDUCATION

**MSc Computer Science**, University of Dundee — January 2025 - present

**MBA (Finance)**, JECRC University — 2019 - 2021
CGPA: 8.21/10

## EXPERIENCE

**Team Leader** — April 2025 - Present
Co-op — *Dundee, Scotland*

- Led a team to ensure smooth daily operations and excellent customer service.
- Managed shift schedules and promoted teamwork and efficiency.
- Trained new staff to improve performance and meet sales targets.

**Market Research Analyst** — July 2021 - October 2024
Nidhi Herbal — *Hanumangarh, Rajasthan*

- Strategic Sourcing: Developed sourcing strategies, achieved cost savings.
- Supplier Relations : Maintained key supplier relationships, quality, and cost competitiveness.
- Collaboration : Worked with cross-functional teams, enhanced efficiency in sourcing.

**Application Developer** — November 2023 - December 2023
Bharat Intern — *Gurgaon, Haryana*

- Weather Forecast Application: Developed a weather forecast application using React.js and Node.js during internship at Bharat Intern.
- Utilized OpenWeather API: Integrated OpenWeather API to fetch real-time weather data for various locations.
- Integrated Todo List: Implemented a todo list feature within the application to enhance productivity and task management capabilities.

## PROJECTS

**Deep Learning for Facial 3D Reconstructions - Simulator - Pytorch, Python, trimesh, scikit-learn)** (Link)

- Model Normalization-Adjusting and aligning the 3D face model to a standard coordinate system.
- 3D Pose Generation – Creating multiple variations of the model under different orientations.
- Image Rendering-Converting the posed 3D models into 2D images for analysis.
- Pose Analysis – Evaluating the rendered images to identify the most frontal face view.

**University Of Dundee Hackathon** (Link)

- Built a web system for volunteer management and data tracking.
- Developed a CMS for content organisation and team collaboration.

- Created a feedback tool to boost community engagement and impact analysis.
- **Tech Stack: GitHub, Git, React, Vite, JavaScript, TailwindCSS, Node.js**

**90 Days Machine Learning-OnGoing** (Link)

- Phase 1: Foundational  Advanced—10 Projects in (30 Days)
- Phase 2: AWS Cloud  MLOps Deep Dive—15+ Projects (30 Days)
- Phase 3: Portfolio  Capstone Projects—10+ Projects (30 Days
- **Tech Stack: ML/Deep Learning: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, NLP, Computer Vision, LLMs, Generative AI, Reinforcement Learning, RAG, fine-tuning LLMs, Vector Database (FAISS)**
- **Tech Stack: Cloud  MLOps: AWS (SageMaker, Lambda, S3), GCP (Vertex AI), Docker, Flask, Terraform, GitHub Actions, DVC**

**Multi-Class Animal Image Classification - Pytorch, Python, sklearn, matplotlib, Pandas, numpy** (Link)

- Developed and trained a Keras-based CNN model to classify images from the "Animals-10" Kaggle dataset into ten diverse categories.
- Achieved a 65.6 percent test accuracy by implementing bottleneck feature extraction using pre-trained VGG16 weights and data augmentation with ImageDataGenerator.
- Demonstrated proficiency in deep learning model development, transfer learning techniques, and robust image preprocessing for multi-class classification.

## TECHNICAL SKILLS

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| **Languages:** | Python, Javascript, SQL, HTML, CSS, C++ |
| **Database:** | SQL, MongoDB |
| **Frameworks:** | Django, Flask, Nodejs |
| **Developer Tools:** | AWS, Docker, CI/CD |
| **AI/ML Libraries:** | PyTorch, Tensorflow, pyrenderer, Tensorflow, HuggingFace, nltk, keras, numpy, scikit-learn |
| **Data Visualisation** | Matplotlib, Seaborn, Plotly, Tableau |

## CERTIFICATIONS

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| **IBM Machine Learning:** | July 2023 (Link) |
| **Exploratory Data Analysis for Machine Learning:** | July 2023 (Link) |
| **Supervised Machine Learning:** | July 2023 (Link) |
| **Unsupervised Machine Learning:** | July 2023 (Link) |
| **Deep Learning and Reinforcement Learning:** | July 2023 (Link) |
| **SQL Essential Learning:** | September 2023 (Link) |
| **Feature Engineering:** | July 2023 (Link) |
| **Data Cleaning:** | July 2023 (Link) |