HIMANSHU BUNDELA

ML Scientist

LinkedIN
www.linkedin.com/in/himanshu-bundela-04376b1aa
Website https://himanshubundela.0rg.live

Contact |

Address Pune India

E-mail bundelahimanshu372@gmail.com

Phone +91-8830589235

Accomplished ML scientist with a successful history of developing and deploying machine learning models for the banking industry. Shows expertise in data preprocessing, feature engineering, model selection, and evaluation. Passionate about utilizing ML techniques to extract valuable insights and drive impactful decision-making.

Skills

- Machine learning integration
- Python
- Decision trees
- Neural networks
- Project management
- Statistical modeling
- Clustering algorithms
- Feature engineering
- Machine learning integration

Professional Experience

2023-08 - 2024-07

Machine Learning Scientist
Scalligent Technologies Pvt Ltd, Kanpur, IN

- Led the development and continuous evolution of a **production-grade KYC and document intelligence system** for a financial institution, handling frequent requirement changes and ensuring seamless adaptation to dynamic business needs.
- Worked in a highly iterative environment, **customizing and modifying the application based on client-specific requirements**, regulatory updates, and feedback from real-world usage.
- Designed and deployed **end-to-end ML pipelines** using Computer Vision and NLP for document classification, OCR-based data extraction, and identity validation across multiple document types.
- Took ownership of **rapid feature enhancements and system modifications**, including adding support for new document formats, improving extraction logic, and refining validation workflows.
- Engineered and maintained scalable data pipelines, continuously updating datasets with new edge cases and **real-world variations observed from client data**.
- Improved system performance and reliability by applying **data augmentation, feature engineering, and optimization techniques**, ensuring robustness against diverse and low-quality inputs.
- Conducted ongoing experimentation and model tuning to balance **accuracy, latency, and business constraints**, adapting models as per evolving client expectations.
- Collaborated closely with cross-functional teams and stakeholders to **translate business requirements into technical solutions**, often working under tight deadlines for urgent updates and deployments.
- Played a key role in **production deployment and maintenance**, ensuring smooth integration of ML models via APIs and handling live system issues and enhancements.
- Continuously monitored system performance, identified failure patterns, and **implemented iterative improvements based on client feedback and operational insights**.
- Ensured the system remained compliant with **KYC and regulatory standards**, adapting workflows and validation logic as policies evolved.

2022-07 - 2023-06	### ML Engineer
TextCK Analytics LLP., Mumbai, Indi

Developed ML-powered Aadhaar masking system for banking application.
- Implemented deep learning algorithms for computer vision and natural language processing tasks.
- Collected and prepared large datasets for model training and validation.
- Applied data augmentation and dimensionality reduction techniques to enhance model performance.
- Conducted experiments to compare and select best-performing model.
- Collaborated with software development team to integrate ML models into production systems.
- Extensive experience in web scraping, developing bots for 14 websites.

2022-02 - 2022-05	### ML Intern
INFOSYS, IN
Developed and deployed machine learning models to address CVD

- Conducted data preprocessing, feature engineering, and selection to improve model performance
- Optimized model architectures and hyper parameters through rigorous experimentation

Education

20201 - 2022-04	### Master of Computer Application
R. H. Sapat College of Engineering - Nashik

Certifications

- Data Science Orientation – IBM (Nov 2022)
- IBM Python Essential – IBM
- Python Basic for Data Science – IBM
- STEM Connect Virtual Experience Program – Deloitte (Jan 2020)
- AWS Cloud Technical Essentials – edX (Jul 2022) | ID: 25a4299d92f7407e9c74e22325f47a0c
- AWS Cloud Practitioner Essentials – edX (Jul 2022) | ID: 26789e5425a3408ab5d858a2382bdf70
- Introduction to Cloud Computing – edX (Jul 2022) | ID: 10a3342c548b425494f2537f1222d99f
- Building Modern Python Applications on AWS – edX (Jul 2022) | ID: 7309c7e6f2d747ab856aaa7aec0caaef
- Introduction to Linux – edX (Jul 2022) | ID: 8f73e4a527d94231a624741337071ccd
- Introduction to Cloud Development with HTML, CSS, JS – edX (Jun 2022) | ID: d62ea4916f00407198cb115fc27aa889
- Blockchain: Understanding Its Uses and Implications – edX (Jun 2022) | ID: 3bb700db93ca4e65bd8c184dc4217e11
- AI for Everyone: Master the Basics – edX (Jun 2022) | ID: d416a20d584442cea4658ffcadb00b6c
- Cybersecurity Basics – edX (Feb 2022) | ID: e052f03c1b074a6c8f02247be507ea9d
- M220P: MongoDB for Python Developers – MongoDB (Nov 2021)
- AWS Academy Graduate – Amazon Web Services
- Jetson Nano – NVIDIA
- Introduction to Artificial Intelligence – Infosys

- Introduction to Deep Learning – Infosys
- Computer Vision 101 – Infosys
- Introduction to Natural Language Processing – Infosys
- Linear Algebra for Data Science – Infosys
- Introduction to Python 3 – Infosys
- Object-Oriented Programming with Python – Infosys
- Learning Django Web Development – Infosys
- Robotic Process Automation – Infosys
- Scrum in Practice – Infosys
- Data Visualization with Python – Coursera
- Data Science Foundation – Great Learning
- Introduction to Data Structures in Java – Great Learning
- Spoken Tutorial – IIT Bombay
- Cloud Computing – NPTEL

Projects

- **E-commerce Web Application with ML Integration**
  Developed a fully functional e-commerce platform from the ground up, focusing on performance, usability, and intelligent user experience. Integrated a hybrid recommendation system combining collaborative and content-based filtering to suggest relevant products. Additionally, implemented object detection capabilities to allow users to search for products using images, making product discovery faster and more intuitive.
- **Emotion Detection System & Music Recommendation**
  Built an intelligent system that detects user emotions through input data and maps them to personalized music recommendations. Leveraged machine learning models to analyze patterns and mood indicators, creating a more engaging and adaptive user experience that responds to emotional context in real time.
- **Lung Cancer Classification using Biopsy Data**
  Designed and implemented a deep learning solution using a Conditional Generative Adversarial Network (CGAN) to classify lung cancer from biopsy data. Focused on improving early detection accuracy by generating high-quality synthetic data and enhancing model training, resulting in reliable classification performance.
- **Color Vision Deficiency Detection Using GANs**
  Developed a GAN-based system to identify different types of color vision deficiencies and simulate how affected individuals perceive colors. This project aimed to support awareness, assist in early diagnosis, and provide practical visualization tools for both users and researchers.
- **Data Scraping Bot**
  Created a scalable and automated data scraping bot capable of extracting structured data from 24 different websites. Optimized for efficiency and reliability, the bot significantly reduced manual effort and enabled continuous data collection for downstream applications.
- **AI-Driven Smart Database Management Dashboard**
  Built an AI-powered dashboard that processes and organizes large volumes of scraped data. Implemented intelligent filtering and prioritization mechanisms to highlight the most relevant information, helping users make faster and more informed decisions.
- **Video KYC (Know Your Customer)**
  Engineered a secure and user-friendly video KYC solution to streamline customer onboarding and verification. Incorporated identity validation, real-time video processing, and compliance checks to ensure adherence to regulatory standards while improving the overall verification experience.
- **Aadhar Masking Tool**
  Developed a privacy-focused tool that automatically detects and masks sensitive Aadhar information in documents. Ensured compliance with government regulations while maintaining data usability, helping organizations handle personal data securely and responsibly.