

# Dhruv Awasthi

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## DATA SCIENTIST | RESEARCH SCHOLAR | ARTIFICIAL INTELLIGENCE (AI) CONSULTANT

I am a seasoned AI Consultant and Data Scientist, I specialize in designing and deploying innovative AI solutions across natural language processing, computer vision, and machine learning domains. With hands-on expertise in crafting end-to-end AI products, my versatile skill set ranges from leading entire product life-cycles to seamlessly integrating within dynamic teams. Complemented by a strong research background, I'm driven by challenges and the desire to push technological boundaries.

## TECHNICAL SKILLS

- Specializations** : Natural Language Processing (NLP), Reinforcement Learning (RL), Computer Vision (CV), Deep Learning (DL), Machine Learning (ML), Large Language Models (LLMs), Prompt Engineering
- Frameworks** : TensorFlow, PyTorch, Keras, Django, Rasa
- Languages** : Python, HTML, CSS, SQL, MATLAB, Octave
- Libraries** : Spacy, HuggingFace, OpenCV, NLTK, Scikit-Learn, Albumentations, BeautifulSoup
- Cloud & APIs** : Amazon Web Services (AWS), Google Cloud Platform (GCP), GPT-4, GPT-3.5, Dall-E, Google Cloud Vision
- Dev Tools** : Git, PyCharm, Docker, Studio3T, Anaconda, Jupyter Notebook, Labelme, LabelImg, Jira
- Technologies** : Linux (Debian, Arch, Red Hat), Elasticsearch, Web Crawlers
- Databases** : MongoDB, PostgreSQL, MySQL

## EXPERIENCE

### Artificial Intelligence Consultant

Healthy Happy Organic Hub

Sep 2022 – Present

Remote

- Led the development and deployment of a comprehensive AI image processing pipeline with 95% accuracy, to extract and parse pivotal information from packaged food products including ingredients, nutritional details, logos, allergens, additives, labels, net weight, serving size, and more.
- Key Achievements:
  - \* Constructed specialized parsers resulting in a 60% faster data processing time.
  - \* Integrated GPT-4 with tailored prompt engineering for a 45% improvement in data extraction accuracy.
  - \* Implemented Google Cloud Vision OCR for a 30% accuracy boost in text extraction from images.
  - \* Achieved 95% logo detection accuracy for 120+ brands within images.
  - \* Managed complete DevOps cycle, including CI/CD pipeline, server setups, deployment on AWS, and auto-start features.
  - \* Designed robust database schemas for MongoDB and PostgreSQL, ensuring data integrity and scalability.
  - \* Achieved 99.9% uptime with automatic AI pipeline restarts and eliminated manual code updates by 100%.

### Teaching Assistant (TA) for Natural Language Processing (NLP)

International Institute of Information Technology Bangalore (IIITB)

Jan 2024 – Present

Bangalore, Karnataka, India

- Conducted tutorials and provided in-depth explanations of NLP topics including Large Language Models (LLMs).
- Supported NLP course development, conducted workshops, graded assignments, collaborated with TAs and students, and gained in-depth knowledge of NLP techniques.

### Research Scholar

International Institute of Information Technology Bangalore

Aug 2022 – Present

Bangalore, Karnataka, India

- Conducted influential research in Natural Language Processing (NLP), specializing in GPT series models (GPT-2, GPT-3, GPT-4), Google Bard, Google Gemini, and other cutting-edge language models.
- Designed and developed a resume improvement app using Large Language Models (LLMs) and Django, enabling users to tailor their resumes to job roles and postings, with automated analysis and feedback.

### Artificial Intelligence Consultant

Lavorro Inc.

May 2022 – Aug 2022

Remote

- Led the enhancement and optimization of chatbot search functionalities to accommodate continuous real-time data influx that helped increase productivity by 30% and reduced downtime by 50%.

**Associate Data Scientist***Lavorro Inc.*

Jun 2021 – Nov 2021

*Bangalore, Karnataka, India*

- Served as Project Lead, liaising with clients to understand requirements, formulating detailed project plans with key milestones, and ensuring optimal resource allocation, leading to the successful completion of projects 20% ahead of time. Regularly communicated project progress to clients and stakeholders.
- In the role of Associate Data Scientist, spearheaded enhancements in an AI/ML-driven chatbot focusing on natural language processing, integrating NLU, NLG, and NLP capabilities.

**AI Consultant in Analytics and Product Team***Healthy Happy Organic Hub*

Oct 2020 – Sep 2021

*Remote*

- Led projects involving machine learning, deep learning, and web scraping.
- Developed end-to-end pipelines, including OCR with spelling correction, logo detection, food additive ranking, automated product analysis capturing 10,000+ products at 98% accuracy, and a data aggregator for 50,000+ products at 99% consistency.

**Associate Data Scientist***Lincode Labs*

Jul 2020 – Jun 2021

*Bangalore, Karnataka, India*

- Specialized in natural language processing, machine learning, database management, DevOps, & web development.
- Led the creation of a deep learning chatbot equipped with NLU, NLG, and NLP, offering real-time learning for context-specific interactions, which led to a 35% reduction in user query resolution time.
- Developed an analytics dashboard providing real-time data analysis, statistical insights, and dynamic data visualizations, encompassing both current and historical metrics.
- Leveraged open-source frameworks for seamless integration of the chatbot into remote collaboration tools, resulting in a 60% faster response time during escalations and a 30% increase in team collaboration efficiency.
- Designed an administrative console for precise chatbot learning control, reducing manual interventions by 70% and streamlined the execution of routine tasks, leading to a 25% increase in operational efficiency.

**Research Assistant***GLA University*

Sep 2020 – Feb 2021

*Remote*

- Engaged in comprehensive analysis, proposal, and development of novel techniques for hybrid feature selection methods and meta-heuristics-based optimization.
- Collaborated closely with a professorial team to contribute technical expertise to multiple research papers, leading to the publication of 3 research papers, with 1 paper receiving Best Paper of the Conference award.

**EDUCATION**

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**International Institute of Information Technology Bangalore***Master of Science (MS) by Research in Data Science*

Bangalore, Karnataka, India

*August 2022 – May 2025***GLA University***Bachelor of Technology (B.Tech) in Computer Science**Cyber Security & Forensics Graduate, issued by IBM*

Mathura, Uttar Pradesh, India

*August 2018 – May 2022***Joseph and Mary Public School***Senior Secondary - Computer Science, Mathematics, Physics, Chemistry*

Delhi, India

*July 2015 – May 2017***CONFERENCES**

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- Volunteered at 7th International Conference on Data Science and Management of Data, 2024
- Volunteered at 24th ACM International Conference on Multimodal Interaction, 2022
- Represented Modular Open Source Identity Platform (MOSIP) at Open Source India (OSI) Conference, 2022

**CERTIFICATIONS AND COURSES**

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- [Google Certified TensorFlow Developer](#)
- [Natural Language Processing Specialization by DeepLearning.AI](#)
- [Hugging Face Deep Reinforcement Learning](#)
- [Deep Learning Specialization by DeepLearning.AI](#)
- [Machine Learning by Stanford University](#)
- [RASA Certified Advanced Developer](#)