

# Subhash Prajapat

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**Location:** - Indore, Madhya Pradesh, India, 452010

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**Date of Birth:** - 16-05-1999

## Profile Summary:

An enthusiastic AI graduate with a strong foundation in Machine Learning (ML) and Artificial Intelligence (AI). Proficient in Python, TensorFlow, Scikit-learn, and libraries like Pandas and NLTK. Experienced in developing ML models, and neural networks, and applying AI techniques such as natural language processing (NLP). Adept at data preprocessing, model optimization, and problem-solving, with a passion for leveraging AI and ML to solve real-world challenges. Eager to contribute and grow in a dynamic, innovative environment.

## Technical Skills:

- Programming Languages: Python, SQL
- Web Development: HTML, CSS, JavaScript
- MLOps: ETL Tools (Apache Airflow), Code Versioning (Git & GitHub), Data Model Versioning (DVC, MLFlow),
- CI/CD (GitHub Action), Containerization (Docker & DockerHub), Scaling & Maintaining (Kubernetes)
- Machine Learning Algorithms & Libraries: Supervised Learning, Unsupervised Learning, Scikit-learn
- Data Manipulation & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Power BI
- Data Preprocessing & Cleaning: Handling Missing Data, Outliers, Invalid Data
- Feature Engineering & Transformation: Feature Scaling, Feature Selection and Extraction,
- Statistical & Mathematical Techniques: Linear Algebra, Probability & Statistics
- Deep Learning Algorithms & Neural Networks: CNNs, RNNs, LSTMs, TensorFlow
- Natural Language Processing (NLP): Ensemble Methods, NLTK (Natural Language Toolkit)
- AI Algorithms and Tools: Generative AI, LLMs, Hugging Face
- Model Evaluation & Optimization: Model Evaluation Metrics, Cross-Validation & Hyperparameter Tuning
- Model Deployment: Streamlit, Flask, AWS (IAM User, ECR, S3, EC2)
- Version Control & Collaboration Tools: Git, GitHub, Jupyter Notebooks, Google Colab

## Soft Skills:

- Collaboration & Teamwork
- Ethical Mindset
- Adaptability
- Creativity & Innovation
- Persistence & Resilience

## Work Experience:

TaskUs India Private Limited, Indore  
Frontier Process

Content moderator  
20th Apr. 2022 - 31st Oct.2023

## Responsibilities:

We have evaluated the content on the website or social media pages including the discussion, review, comments, and images when any user submits content to a website to ensure that the content upholds the website's regulations, is not illegal, inappropriate, harassing, etc.

## Internship And Workshop:

### **Front-End Developer Intern**

Softvyom Consulting Services Pvt. Ltd. | February 2024 – June 2024

- Developed and maintained a web-based application using HTML, CSS, JavaScript, and React.js to enhance user experience across multiple platforms.
- Collaborated with designers to implement new user interface features, improving usability and responsiveness.
- Built an interactive web application for online courses, blogs, and reviews using React.js, integrating API calls to display dynamic content.
- Wrote clean, scalable, and maintainable code for an online education platform, ensuring performance and reliability.

### **Workshop Participant**

Data Analysis using AI and Power BI | SANMANTRANA-2023, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

- Participated in a workshop on Data Analysis using AI and Power BI, organized by SANMANTRANA-2023.
- Developed a House Price Prediction model by applying machine learning algorithms to real estate data.
- Gained hands-on experience in data visualization and predictive modelling using Power BI and AI techniques.

- **Education:**
- Master of Computer Applications (MCA) || Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore June 2024
- Bachelor of Science (Mathematics) || Maharaja Ranjit Singh College of Professional Sciences, Indore June 2019

**Training And Certifications:**

- Data Science Training at GrowTech. Indore.
- Machine Learning from Simplilearn.
- Participate in a workshop on Generative AI model development organized by NxtWave.

**Projects:**

**Project 1: Vehicle Insurance Prediction Model (Finance Domain)**

**Aim:** Predict vehicle insurance claims using machine learning models to assist in risk management and claim prediction.

**GitHub Repo Link:** [https://github.com/S5432/MLOps\\_Vehicle\\_Insurance\\_Domain\\_Project](https://github.com/S5432/MLOps_Vehicle_Insurance_Domain_Project)

- **Role & Responsibilities:** Collected and processed insurance data from MongoDB and MLOps Tools to Develop the project.
- **Developed** and **trained** machine learning models (RandomForestClassifier) to predict vehicle insurance claims.
- **Visualized** data insights using **Matplotlib** and **Seaborn** for better decision-making.
- **Deployed** the model on AWS S3 and created a Flask-based API for easy access to provide interactive predictions for businesses.
- **Automated** the deployment pipeline using Docker and GitHub Actions for continuous integration and delivery.
- Achieved **88% model accuracy** in predicting vehicle insurance claims.
- **Automated data pipeline (CI/CD Pipeline)** and model deployment to streamline operations.

**Tech Stack:** NumPy, Pandas, Matplotlib, RandomForestClassifier, MongoDB, AWS (S3, EC2), Docker, GitHub Actions, Flask

**Project 2: NLP Text-Classification System**

**Aim:** Identify unreliable news articles in real-time.

**GitHub Repo Link:** [https://github.com/S5432/NLP\\_Text\\_Classification\\_Project](https://github.com/S5432/NLP_Text_Classification_Project)

- **Role & Responsibilities:** **Built** an end-to-end **NLP** model to classify news articles as reliable or fake.
- **Implemented** classification techniques to distinguish between trustworthy and fake news, enhancing content credibility.
- **Utilized TfidfVectorizer** for feature extraction and **NLTK** for text processing.
- Implemented a web application using **Streamlit**, allowing users to input news articles and receive predictions (Fake or Real).
- **88.98% model accuracy** in detecting fake news articles.

**Tech Stack:** Python, Scikit-learn, Random Forest Classifier, Pandas, NLP, NLTK, TfidfVectorizer, Streamlit.

**Project 3: Agricultural Chatbot for Farmers**

**Aim:** Develop a chatbot using **cosine similarity** to match user queries with predefined questions and provide useful answers.

**GitHub Repo Link:** [https://github.com/S5432/Agriculture\\_Chatbot](https://github.com/S5432/Agriculture_Chatbot)

- **Role & Responsibilities:** Collected and processed data, identified common farmers queries, and applied solutions.
- **Developed a Question Answering System** using NLP techniques to help farmers with agricultural queries.
- Implemented **cosine similarity** to match user questions to pre-defined questions in a dataset.
- Built a simple chatbot using Python and **NLTK**, which responds to user input with relevant answers.
- **Deployed** the model using **Flask & Render** to provide an interactive Chatbot.

**Tech Stack:** NumPy, Pandas, NLP, NLTK, TfidfVectorizer, Cosine Similarity, Flask, Render.

**Passion:**

- Reading - A keen interest in reading, especially in Indian history.
- Gardening - Enjoy gardening as a relaxing hobby.

**Achievements:**

- **Won** the Sanskrit Subject Competition for exceptional knowledge and presentation skills.
- **Led** the NSS Camp 2017 for the Nasha Mukta Bharat initiative, promoting social awareness.
- **Won** the General Knowledge Competition, demonstrating strong analytical and problem-solving skills.

**Languages:**

- English
- Hindi

**Declaration:**

I hereby declare that the information provided above is accurate to the best of my knowledge, and I take full responsibility for the correctness of the details.

**Date:**

**Place: Indore**

**Subhash Prajapat**