

**Prashant Kumar**

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## Objective

Enthusiastic third-year BTech student in Artificial Intelligence and Data Science, seeking an internship to leverage my skills in AI, machine learning, and full-stack development. Passionate about contributing to innovative projects while gaining practical experience in a dynamic professional setting.

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## Education

### **Bachelor of Technology (BTech) in Artificial Intelligence and Data Science**

*Vivekananda Global University, Jaipur, Rajasthan*

Expected Graduation: May 2027

- **Relevant Coursework:** Machine Learning, Deep Learning, Web Development, Data Structures
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## Skills

- **Programming Languages:** Python, JavaScript, HTML, CSS, SQL
  - **Frameworks & Tools:** React, Node.js, Flask, TensorFlow, Keras, Scikit-learn, Git
  - **AI & Data Science:** Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI
  - **Full-Stack Development:** RESTful APIs, MongoDB, Express.js, React, Node.js (MERN stack)
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## Projects

### **Full-Stack Development**

- **E-Commerce Platform**
  - Built a fully functional e-commerce site with user authentication, product listings, and cart features.
  - *Technologies:* React, Node.js, Express, MongoDB
  - *Impact:* Demonstrated proficiency in end-to-end web development.
- **Student Management System**
  - Developed a web app to manage student records, including attendance and grades.
  - *Technologies:* HTML, CSS, JavaScript, SQL
  - *Impact:* Improved efficiency in academic administration.

- **Social Media Video Sharing Platform**

- Created a platform for users to upload, share, and comment on videos.
- *Technologies:* React, Firebase
- *Impact:* Gained expertise in real-time databases and media handling.

## Machine Learning

- **Customer Churn Prediction**

- Designed a model to predict customer churn using logistic regression and random forests.
- *Technologies:* Python, Scikit-learn, Pandas
- *Impact:* Achieved 85% accuracy, supporting retention strategies.

- **Fake News Detection**

- Built an NLP-based classifier to identify fake news articles.
- *Technologies:* Python, NLTK, Scikit-learn
- *Impact:* Enhanced ability to detect misinformation.

- **Email Spam Classifier**

- Implemented a spam detection system using Naive Bayes and SVM.
- *Technologies:* Python, Scikit-learn
- *Impact:* Improved email filtering accuracy.

- **House Price Prediction**

- Developed a regression model to predict house prices based on key features.
- *Technologies:* Python, Scikit-learn, Matplotlib
- *Impact:* Provided valuable real estate insights.

- **Cancer Prediction**

- Created a model to predict cancer diagnosis from patient data.
- *Technologies:* Python, Scikit-learn
- *Impact:* Supported early detection with high accuracy.

## Deep Learning

- **Object Detection**

- Implemented real-time object detection using YOLO.
- *Technologies:* Python, TensorFlow, OpenCV
- *Impact:* Successfully classified objects in images and videos.

- **Sentiment Analysis**
  - Built an LSTM-based model to analyze sentiments in social media posts.
  - *Technologies:* Python, Keras, NLTK
  - *Impact:* Achieved 90% accuracy in sentiment classification.
- **Black & White to Color Image Conversion**
  - Developed a CNN model to colorize grayscale images.
  - *Technologies:* Python, TensorFlow
  - *Impact:* Strengthened skills in image processing and generative models.
- **Emotion Detection**
  - Created a model to detect emotions from facial expressions.
  - *Technologies:* Python, Keras, OpenCV
  - *Impact:* Applied computer vision to real-world use cases.
- **Tumor Detection**
  - Built a CNN model to identify tumors in medical images.
  - *Technologies:* Python, TensorFlow
  - *Impact:* Contributed to accurate medical diagnostics.
- **Text Summarizer**
  - Developed an NLP tool for extractive summarization of long texts.
  - *Technologies:* Python, SpaCy, NLTK
  - *Impact:* Boosted efficiency in processing large documents.

## Generative AI

- **Podcast Generator**
  - Created a tool to generate podcasts from text using text-to-speech models.
  - *Technologies:* Python, Hugging Face Transformers
  - *Impact:* Explored innovative media applications of AI.
- **Text to Story Generator**
  - Built a model to generate short stories from user prompts.
  - *Technologies:* Python, GPT-2
  - *Impact:* Showcased natural language generation capabilities.
- **Document Summarizer**
  - Developed a tool to produce concise summaries of lengthy documents.

- *Technologies:* Python, BERT
  - *Impact:* Enhanced productivity for text-heavy tasks.
  - **YouTube Video Summarizer**
    - Created a system to summarize video content using speech recognition and NLP.
    - *Technologies:* Python, SpeechRecognition, NLP
    - *Impact:* Enabled quick content insights without full video viewing.
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## **Certifications**

- **IBM Machine Learning Professional Certificate**  
*Coursera, Completed: March 2025*
  - Mastered supervised/unsupervised learning, neural networks, and model evaluation.