PRATHAM

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ABOUT ME

Web Developer(Django) || Data Analyst || ML || Graphic Designer

I am a dedicated person who loves to play with data and solve problems. I pursuit great problem solving skills and is a team person who even have led so many teams and projects. I believe in learning everything by myself. My role as the Head of Media Cell at IIT Jammu honored my leadership and communication skills

EDUCATION

Course	Institute	Year of Passing	Result
B.Tech (Major: Electrical)	IIT Jammu	Expected 2025	7.61 CGPA (Till 3rd Semester)
12th Class	Prince School	2020	88%
10th Class	Satluj Public School	2018	92%

WORK EXPERIENCE

IIT Jammu

Front End Development Intern, On-Site (Jun 2022 - Aug 2022)

- Compiled an App for Students which can be used to digitalize daily needs.
- Rectified the UI/UX for the same using Figma (82 Pages)
- Remodeled and Also created some pages in Flutter.

Nucelon

Graphic Designing & Web Development Intern, Jammu (May 2023 - Aug 2023)

- Designed multiple professional brochures with them with some minimalistic designs
- Created some T-Shirts and Logos also for different events and the most important their own logo.
- Created multiple fully responsive websites for them.

Nocturne Ventures

Data Science Freelancing, Remote (Jul 2023 - Present)

- Analyzed various techniques, such as web scraping, to gather data from different sources relevant to the project, including identifying suitable data sources, extracting data, and ensuring data quality and integrity
- Developed a database with over 1700 burrito stores through in-depth analysis to uncover patterns, trends, and insights, utilizing statistical techniques, data visualization, and exploratory data analysis
- Compiled results from data analysis and modeling process into concise reports, visualizations, and presentations to stakeholders, team members, and clients

PROJECTS

Price Analysis and Predictive Modeling in US

Data Scientist, Nocturne Ventures, Remote (Jul 2023 - Present)

- Conducted comprehensive analysis of burrito prices across various US locations to uncover underlying price variations factors
- Collected extensive data through web scraping techniques incorporating diverse sources for a representative sample of prices
- Communicated demographic data, such as population, income, and other socioeconomic factors to build predictive models of burrito prices based on local parameters
- Implemented interactive visualizations using D3.js to communicate project findings, highlighting the effect of various factors on burrito prices and providing valuable industry insights

Creative Insight Analyzer

(Jul 2023 - Aug 2023)

The Creative Insight Analyzer (CIA) is a groundbreaking NLP (Natural Language Processing) project that combines image and word analysis to evaluate and quantify an individual's creative thinking abilities and deployed using flask and heroku

- This project seeks to provide deep insights into a person's creativity by analyzing both textual and visual inputs.
- Key Achievements: Multimodial Data Integration(image and text), NLP Models and Algorithms, Creative Thinking Matrices
- Designed a graphical representation for the final results

- Developed a webserver using flask for the same

Pre Production Film Tool
Full Stack Developer(Django) & Team Lead (Jun 2023 - Present)
- Our own one of a concept
- Have Used AI techniques to ease the preproduction of Films.
- We contacted a film director for the same and got to know about their needs which we need to add, and made the prototype.
- Made the whole website on Django Web Framework
- Connected Database, Made proper Frontend
- We hosted the website using Render for now, later on maybe we Upgrade.

Machine Tracking Webserver
Full Stack Developer/ Django Developer, IIT Jammu (Sept 2023 - Present)
- Designed and designed a webserver for a tracking app for costly machines in our college
- Added device authentication, live location, geofencing and vibration alert using Django

LIbrary Website(IIT Jammu)
Front End Developer (Mar 2023 - Apr 2023)
- Our library website's flow was too tough for students to understand and find what they need.
- Redesigned the website, by consulting with the library manager and understanding student needs
- I added some important features we need in day to day life.
- Also made it look more attractive for visitors too.

IRA(IIT Jammu's App)
Front End Developer, IIT Jammu (May 2022 - Aug 2022)
- We floated a google form for students to identify their day to day problems and needs, similarly we discussed with professors and Higher authorities too.
- After Understanding them I made a UI design for the app consists of 82 pages, with different users and flows
- We also did the Eye Tracker test on our app for making it more easy to use.

NLP, CNN And OpenCV Projects
Data Scientist, IIT Jammu
- Right Now Working on a Question Generation Project for HP Hackathon which I am doing using Hugging Face Transformer Technique
- Developed 2-3 Basic open CV projects such as Moving Object Detection, Face Recognition.
- Developed 1 Chatbot using OpenAI APIs and Dialogue flow both
- Designed 1 Title Finder using Description
- Developed 2 Image Classification using CNN

Fear of Loan Rejection Analysis using KNN Technique
Data Scientist, IIT Jammu (Jun 2023 - Jul 2023)
- Collected data from the official US website, focusing on various factors for finding indicators of fear of loan rejection. (approximate 29000 people data)
- Conducted in-depth analysis using clustering techniques, such as k-means clustering , to group individuals based on their characteristics.
- Identified meaningful clusters within the data, revealing distinct patterns and correlations among the factors examined.

Time Series Analysis and Prediction of PM2.5 Levels in a City
Data Scientist, IIT Jammu
- Collected historical PM2.5 data from reliable sources and prepared it for analysis, including data cleaning, handling missing values, and ensuring data consistency.
- Developed a robust time series model, such as ARIMA (AutoRegressive Integrated Moving Average) or SARIMA (Seasonal ARIMA), to capture the temporal dependencies and fluctuations in PM2.5 levels.
- This model allowed for accurate predictions of future air quality within the same city.
- Communicated the trained time series model to make future predictions of PM2.5 levels, providing valuable information on potential air pollution trends and aiding in proactive planning and decision-making by relevant stakeholders, such as local authorities, environmental agencies, and health organizations.

ML Models
Data Scientist, IIT Jammu (Feb 2023 - Jul 2023)
- Fear of loan rejection Analysis using KNN Techniques

- Developed Movie Recommendation Model
- Built Real Estate Price Prediction
- Built Heart Disease Prediction
- Built Spam Mail Identifier
- Built Bankruptcy Prediction
- Built HR Employment Attrition Prediction

Line Follower Bot with Shortest Path Finding Capability
(Dec 2022)

- Designed and developed an autonomous Line Follower Bot using Arduino.
- Implemented sensor-based line detection algorithms to enable the bot to follow a marked path on the ground.
- Expanded the functionality of the Line Follower Bot by integrating a shortest path finding algorithm.

Other Projects

- Led a team and made a series of FAQ Videos For IIT Jammu.
- Designed a website for our Technical Fest 2023.
- Designed a website for an event in November 2023(CVIP 2023).
- Made a replica of NIRF for JKNIRF.
- **Designed and Got a chance to work with Indian Army. and helped them in one of their Projects.**
- Communicated 2 Explanatory Videos for audience to learn about IIT Jammu
- Built different Posters for multiple events at IIT Jammu, (more than 60 posters.)

SKILLS

Web Development	Bootstrap, UI/UX, Front End Development, Api, Django
Data Science	Scikit-Learn, Matplotlib, Web-Scraping, Seaborn, TensorFlow, Model Validation Techniques, Data Cleaning Techniques, D3.Js, Pandas, Algorithms
Programming Languages	C/C++, Python, Javascript, React.Js, HTML
Softwares	Git, Adobe Photoshop, Adobe Premiere Pro, Figma
Graphic Designing	Poster Designing, Video Editing
Deep Learning	Tensorflow, NLP, CNN, ANN, PyTorch, Keras, RNN
Soft Skills	Self Leaner, Good Communication, Problem Solver

ADDITIONAL DETAILS

Position of Responsibilty

- Secretary - IIT Jammu Media Cell
- Media Head - IIT Jammu Tech Fest
- Design Head - Entrepreneurship Fest
- Senior Advisor - Photography Club, Design Body
- Diffterent Team Heads of Different Clubs

Certifications

- World Quant University Applied Machine Learning Certification

Awards

- Qualified for IIT Bombay Techfest, Got third Rank in qualifying round
- Winner, Competition held by IG Traffic Police, J & K
- Winner, Competition by Northern Command, Jammu
- Won many Designing events at college

Professional Development

- Applied Machine Learning - World Quant University

Extracurricular Activities

- Volunteered in Renao -Cultural Fest, 2021
- Did a Documentary with Jammu Battalion
- Won many logo making competition
- Actively Led Club Events
- Anchored and Managed the Freshers Event

Hobbies: Basketball, Videography, Photography
Languages: Hindi, English

SCHOLASTIC ACHIEVEMENTS

- Got 9.7 SGPA in my First Semesster.