

Prateek Kumar Singh

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Personal Profile

An ambitious individual with a diverse skill set, excelling in software engineering, particularly in application development. Fuelled by a passion for continuous learning, Keen to acquire new skills and stay updated with industry trends. I am currently seeking entry-level opportunities in Development roles to apply my expertise and contribute to innovative projects.

Work Experience

Digital Heroes

Remote, India

Backend Software Engineer Intern

June 2023 - August 2023

- I took the lead in analyzing and optimizing legacy code, which led to a significant improvement of 20 % in the overall system efficiency.
- Collaborated with senior developers to seamlessly integrate new code.
- Skills:** Python, Django, Flow Chart, Ubuntu Linux, Linux tools, API creation, Scripting, Git, Time Management, Communication, Presentation skills.

Education

Noida Institute of Engineering and Technology

Greater Noida, UP

BTech in Computer Science

7.78 CGPA | August 2020 - July 2024

- Courses:** Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning
- Working as a CLUB Mentor and Guide for Juniors

Ursuline Convent Senior Secondary School

Greater Noida, UP, India

Intermediate

86.8 % | Apr 2019 - Apr 2020

- Passed with Distinction
- Specialised in Physics, Chemistry, Maths and Computer Science

University Projects

Suicide Detection Model Development

Self-initiated Project

https://github.com/prateek271/SBD_model

January 2023 - June 2023

- Developed a suicide detection model to enhance early detection and intervention.
- Technologies Used:**
 - Machine Learning Techniques: Advanced classification algorithms
 - Dataset: Diverse dataset for identifying suicidal behavior
 - Hardware: Intel i5 11th Gen, 16GB RAM, 525GB SSD, Intel Iris Xe Graphics
- Achieved:** 20% increase in response rate, enhancing early detection capabilities and supporting timely intervention for at-risk individuals.
- Technical Skills:** Python, Scikit-learn, NLTK, Pandas, Joblib
- Soft Skills:** Research, Analytical thinking, Problem-solving, Project management

College Platform: Code Busters

College

https://github.com/prateek271/Code_buster_django

November 2021 - December 2021

- A Platform to provide students with all the needs they need to stay up to date with what happens in college to important stuff.
- Integrate with file storage by notion and chatting connectivity via Discord.
- Connects the students only with Jr and Seniors helping them connect and communicate together.
- Technical Skills:** Python Language, Django for framework, Matplotlib for visual analysis, API Integration.
- Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking, Ideation, Club Group managing.

NavAi: Traffic Navigation Software

College

https://github.com/prateek271/NAV_AI-Route-generator

February 2023 - March 2023

- Analysing data from 2008 to 2015 to discover patterns such as trends, correlations, and probabilities.
- Developed an algorithm for optimal route generation considering real-time traffic conditions and historical data.
- Implemented machine learning models to predict traffic congestion and provide alternative route suggestions.
- Created a user-friendly interface for visualizing traffic data and route suggestions using Python and TensorflowLite.
- Technical Skills:** Python with Pandas, matplotlib, Seaborn.
- Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

- This project is a WebRTC SDP application that allows two users to exchange SDP offers and answers. It demonstrates the process of creating and exchanging SDP offers and answers without needing a signaling server.
- Creates and exchanges SDP offers and answers. Real-time video streaming between two users.
- **Technical Skills:** WebRTC, HTML, CSS, JS, UDP Protocol.
- **Soft Skills:** Presentation, Logical and Critical Thinking

Skills

- Programming** Python (Pandas, PyTorch, NumPy, Scikit-learn, Django, Flask), HTML/CSS, JavaScript, SQL, AWS, Node.js
- Miscellaneous** Linux, Shell (Bash), Tableau, Microsoft Office, Firebase, Git , AWS , Azure, MDM, SCCM.
- Soft Skills** Time Management, Problem-solving, Documentation, Engaging Presentation.

Publications

JOURNAL ARTICLES

SecureLink Using P2P WEBRTC
Shadiya Prateek Kumar Singh
INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS pp. 1479–1495. 2024

CONFERENCE PROCEEDINGS

DESIGNING A MODEL FOR SUICIDAL BEHAVIOUR DETECTION
Shadiya Prateek Kumar Singh
13th International Conference on Interdisciplinary Research for Sustainable Development (ISRSD 2024), 2024, Jamia Hamdard, New Delhi

Languages

- English** Professional proficiency
- Hindi** Native proficiency
- Japanese** Beginner proficiency

Passion / Interests

- Cooking** Passionate about it, I’m particularly proficient in Indian-style baking and homemade pasta.
- Linux** Since 2020, I’ve immersed myself in the world of Linux, exploring its intricacies and functionalities. Although I recently transitioned to Windows, I still appreciate the intuitive design reminiscent of Linux’s user interface.
- Technical Writing** I write descriptive blogs about Linux, some of them are on my GitHub and BlogPage.
- Video Games** I always had the gaming gene. I mostly play on my phone and occasionally on my laptop.