Devesh Kumar Pandey

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EDUCATION

Indian Institute of Management (IIM) Mumbai Mumbai, India
(MBA) *Jan 2025 - May 2026 (Expected)*

Indian Institute of Technology (IIT) Patna Patna, India
*(B.S. in Mathematics and Computing. **CGPA: 8.2/10**)* *Nov 2021 - Jan 2025*

Jawahar Navodaya Vidyalaya, Kushi Nagar Uttar Pradesh, India
*(Senior Secondary School Certificate. **Percentage: 95.4%**)* *April 2019 - March 2020*

EXPERIENCES

Frontend Developer Intern August 2024 - Present
CrakCode
- Enhanced the profile page by adding a feature to upload profile pictures and edit user information.
- Developed a sign-in page using Firebase Authentication to enable users to sign in using their Social Media accounts.
- Optimized the performance of the website by reducing load time by **40%**.
- Used React.js, TypeScript, and Tailwind CSS to develop the frontend of the website and integrated it with Firebase for backend services.

Mentor April 2022 - July 2022
MentorMatch
- Solved doubts of 50+ students on Physics, Mathematics, and Chemistry-related problems.
- Mentored students to help them understand complex concepts and solve problems efficiently.

Managed Network Expert November 2023 - Present
Chegg
- Authored solutions related to Computer Science topics for students on the Chegg platform.
- Provided step-by-step solutions to help students understand complex concepts and solve problems.

PROJECTS

SnapText [**Source Code**](#)
OCR Web Application | React.js, Tesseract.js, Express.js, Node.js, Tailwind CSS *Live Link*
- Created a web application to extract text from images using Optical Character Recognition (OCR) technology.
- Integrated Tesseract.js to extract text from images with an accuracy of **90%**.
- Enhanced readability by **50%** using the Gemini API for text enhancement.
- Introduced CSV export functionality that enabled users to share and download extracted text easily.

Stock Price Prediction (Time Series) [**Colab Link**](#)
Financial Analytics Project | Python, AlphaVantage API, ARIMA, Matplotlib, Pandas *Feb 2024 - Feb 2024*
- Boosted prediction accuracy by **20%** by using past 100 days data for training the model using AlphaVantage API.
- Analyzed stock price data of **Nvidia** and **Tesla** to predict future stock prices.
- Trained an **ARIMA** model to predict future stock prices, achieving a strong R-squared score of 0.83.
- Visualized stock price trends using **Matplotlib** to identify patterns and make informed decisions.

Gold & Oil: A VAR Analysis [**Source Code**](#)
Financial Analytics Project | Python *April '24 - April '24*
- Analyzed the relationship between Gold and Oil prices using Vector Autoregression (VAR) model.
- Conducted Granger Causality tests to determine the direction of causality between Gold and Oil prices.
- Interpreted results in the context of COVID-19's influence on returns using coefficients of VAR Equation.
- Visualized the results using **Matplotlib** to identify trends and patterns in the data.

Obstacle Avoider [**Source Code**](#)
Arduino based Project | C/C++ *Oct 2022 - Nov 2022*
- Developed an autonomous obstacle-avoiding vehicle using Arduino and ultrasonic sensors.

- Programmed the Arduino microcontroller in C/C++ to enable the vehicle to navigate and make left turns when obstacles are detected within a 10 cm range.
- Ensured real-time obstacle avoidance by integrating ultrasonic sensors with the Arduino microcontroller.
- Used a motor driver to control the speed and direction of the vehicle, ensuring smooth navigation.

ShoesShop   **Source Code**
E-commerce Project | React, JavaScript, HTML, CSS   *Live Link*
- Developed frontend for an e-commerce website using React and JavaScript.
- Implemented features like adding to cart, searching products, and **filtering** products by category, colour and price.
- Improved user experience by decreasing load time by **30%** using local storage to store user's cart data.
- Designed a responsive UI using **CSS** to ensure compatibility across all devices.

ACHIEVEMENTS

Codeforces: Attained a max rating of **1519**. (Profile: **devesh_dkp**)

Codechef: Max rating of **1720**. (Profile: **devesh_dkp**)

Codechef Starters: Ranked **47** (13th Dec 2023) and **353** (5th July 2023) among 10,000+ participants.

JEE Advanced 2021: Achieved an All India Rank of **4762** among 250,000 candidates selected through JEE Main.

JEE Main 2021: Secured **99.66** percentile out of 1 million candidates.

Leetcode: Solved around **1000+** DSA problems across all coding platforms.

Facebook Hacker Cup: Qualified for Round 2 of Facebook Hacker Cup 2023. (Certificate: **devesh_dkp**)

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, SQL, HTML, CSS, TypeScript, R

Technologies: React.js, Node.js, Express.js, MongoDB, Git, GitHub

Tools: Jupyter Notebook, Google Colab, Bash Scripting, Linux, MatLab

Concepts: Algorithms, Data Structures, OOPs, DBMS, Data Science, Digital Systems

COURSES

Google Cloud Career Practitioner Campaign 2022 (GDSC IIT Patna): Completed the course.

JP Morgan Chase & Co. Excel Skills Certified for completing the course.