Devesh Kumar Pandey

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Portfolio: Devesh Kumar Pandey
GitHub: https://github.com/devesh-dkp/
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EDUCATION

- **Indian Institute of Technology(IIT) Patna** — Patna, India
  (BS in Mathematics and Computing. CPI: 8.2) — *November 2021 - May 2025 (Expected)*

- **Jawahar Navodaya Vidyalaya(JNV) Kushinagar** — Kushinagar, India
  (AISSCE/Intermediate CBSE. Percentage: 95.4%) — *April 2019 - March 2020*

PROJECTS

- **Portfolio Website :** Devesh Kumar Pandey

- **Time Series Analysis and Forecasting of Stock Prices** — Colab Link
  Financial Analytics Project — *Feb '24*
  - Used API key from Alpha Vantage to get Stock prices of last 100 trading days.
  - Developed ARIMA model, chose best lags by performing a stepwise search using AIC benchmark.
  - Forecasted future stock prices, aiding investment decisions with increased interpretability.

- **VAR Model Analysis of Gold-Oil Spillover Effects During COVID-19** — Source Code
  Financial Analytics Project — *April '24 - April '24*
  - Constructed a Python VAR model to analyse the interactions between gold and oil prices during COVID-19.
  - Used Granger Causality test for finding direction of spillover & ADF Test for Stationarity of Price Values.
  - Interpreted results in the context of COVID-19's influence on returns using coefficients of VAR Equation.

- **ShoeShop E-commerce Application** — Source Code / Live Link
  E-commerce Project
  - Developed an e-commerce React application for a shoe store, cataloguing over 30 products.
  - Implemented diverse functionalities, including product browsing and filtering across various categories.
  - Leveraged React for building user interface and utilized JavaScript for seamless frontend interactivity.

- **Meetcode** — Source Code
  Individual Project — *May '23 - June '23*
  - Built a web application similar to LeetCode using React, Nodejs, and Vite.
  - Enhanced a collaborative coding environment using a Node.js API built with Express.
  - Implemented user authentication and authorisation using JSON Web Tokens (JWTs).

ACCOMPLISHMENTS

- **Codeforces:** Achieved a rating of **1519** (Specialist). (Profile: **devesh_dkp**)
- **Codechef:** Max rating of **1687** (3 Star). (Profile: **devesh_dkp**)
- **Codechef Starters Contest:** Secured Global rank of **47** (13th Dec 2023) and **353** (5th July 2023).
- **JEE Advanced 2021:** All India Rank **4762** among candidates selected through JEE Mains 2021.
- **JEE Mains 2021:** Ranked in the top **0.34** percentile out of more than **1** million candidates.
- **Leetcode:** Solved around **1000+** DSA problems across all coding platforms.
- **Facebook Hacker Cup:** Qualified till round 2. AIR 855 (Profile: **devesh_dkp**)

SKILLS AND COMPETENCIES

- **Programming:** C++, Python, HTML, CSS, JavaScript, React.js, Express.js, Node.js, MongoDB, TypeScript, SQL
- **Mathematics:** Discrete Mathematics, Statistics, Numerical Linear Algebra, Number Theory
- **Computer Science:** Algorithms and Data Structures, OOPs, DBMS, Data Science, Digital Systems
- **Tools:** Git, Github, Jupyter Notebook, Google Colab, Bash Scripting, Linux, MatLab

EXTRA CURRICULAR/EXPERIENCE

- **Google Cloud Career Practitioner Campaign 2022 (GDSC IIT Patna):** Completed the course.
- **Mentor at MentorMatch (March-July'22):** Solved doubts of 50+ students on JEE/NEET related problems.
- **Managed Network Expert at Chegg (Nov '23 -)**, authored solution related to Computer Science topics.