Devesh Kumar Pandey

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IIT Patna | Gail Utkarsh Super 100 Scholar | Intern@CrakCode

ACADEMIC PROFILE

Degree	Institute	%/CGPA	Year
BS (Mathematics and Computing)	Indian Institute of Technology, Patna	86.90%	2025
Class XII	Jawahar Navodaya Vidyalaya, Kushinagar	95.40%	2020
Class X	Jawahar Navodaya Vidyalaya, Kushinagar	89.80%	2018

INTERNSHIP

CrakCode   **Jul'24-Sep'24**
Project Title: Building a High-Performance Educational Platform to Empower Future Developers

Project Details	- Collaborated with a **team of 11** for the development of web application and services, as a **website developer** on client side - Enhanced **user engagement** by implementing **cross-browser** compatibility and responsive design for a seamless experience - Deployed **performance monitoring** tools, leading to noticeable **decreases** in the **loading time** & enhanced user experience - Leveraged **Firebase** to boost system **scalability** through efficient data management, resulted in enhanced **app performance** - Coordinated **project management** & facilitated team communication through effective use of **Trello** and **Slack** platforms - Conducted insightful **knowledge transfer(KT)** session via Google Meet on **project workflows** for group of three interns
Achievements	- Increased **lead generation** by **20%** by moving from google forms to web registrations and by implying **SEO optimizations** - Achieved **performance score** of website as **99** on **Lighthouse** and reduced Largest **Contentful Paint time** to **0.8 second** - Improved system **scalability** by **500%** through Firebase **sharding** and streamlined **Sign in** with social media authentication

PROJECTS

Indian Institute of Technology, Patna   **Jan'24-Feb'24**
Project Title: Time series prediction of stock prices Source Code

Project Details	- Implemented **ARIMA model** in **Python** to forecast stock prices, utilizing data of previous **100 days** for precise predictions - Leveraged **AlphaVantage API** to retrieve stock price data and applied **log return** analysis to calculate **investment** returns - Visualized stock price **trends** using **Matplotlib**, helping identify critical patterns and support **data-driven** decision-making
Achievements	Attained a robust **R-squared score** of **0.83** for the experiment while consistently delivering precise forecasts of stock prices

Project Title: VAR analysis for gold and oil pricing   Source Code   **Mar'24-Apr'24**

Project Details	- Developed a **VAR(p) model** to evaluate the **spillover effects** between gold and oil prices during the COVID-19 pandemic - Compiled **data** on oil and gold returns, creating extensive table with **skewness**, **kurtosis** & other key **descriptive statistics** - Utilized **AIC** and **BIC** to optimize **lag** selection and **Granger Causality test** to find a causal relationship between variables
Achievements	- Showcased **dashboard** highlighting **insights,** revealing increased **volatility transmission** from oil to gold during pandemic - Found no **bidirectional volatility** repercussion in **returns** between the gold and oil markets, showing **lack of reciprocity**

Project Title: Obstacle-avoiding autonomous robot   Source Code   **Sep'22-Dec'22**

Project Details	- Engineered an **autonomous vehicle system** incorporating **Arduino & ultrasonic sensors** for effective obstacle avoidance - Programmed **microcontroller** in **C/C++** to handle obstacle detection and execute precise left turns within **10 cm** coverage - Employed a **motor driver** to precisely manage the vehicle's speed and the **directional control** for optimal manoeuvrability
Achievements	- Delivered implementation of reliable **obstacle-avoidance** system that navigates **autonomously** using **real-time sensor** data - Earned **recognition** from faculty for the project and developed **functional prototype** for demonstration at the end of term

Project Title: SnapText OCR Web Application   Source Code   **May'24- Jul'24**

Project Details	- Created a **web application** to extract text from images using React.js, Express.js, and **Optical Character Recognition** - Integrated **Tesseract.js** API and Gemini API with the application to extract text from images with a very high accuracy - Enhanced user experience by designing a **responsive UI using Tailwind CSS**, ensuring compatibility across all devices - Introduced **CSV download feature** to enable users to download extracted text from images in CSV format

POSITIONS OF RESPONSIBILITY

Quiz Club	Orchestrated & managed **online quiz events** by executing engaging sessions for over **50 participants** in the college	2022
Aarambh, IIT	Organized **Chess Competition** by leading a **team of 6** to **manage** and successfully execute a **two-day chess** event	2022
Optimatx, Maths Club	- Played a crucial role in **founding** the **Mathematics Club** as part of the department's **first undergraduate** cohort - Promoted **peer engagement** among over **200** students by **spearheading** strategic **initiatives** such as a **quiz** series	2023 2023

AWARDS AND ACHIEVEMENTS

Skills	- Languages: Python, C++, SQL, R, SQL, Technologies: Pandas, Numpy, Matplotlib, Git, TensorFlow - Tools: Jupyter Notebook, Google Colab, Power Bi, MATLAB, Bash Scripting	
Certifications	- Completed **In-depth practical** tasks on **JPMorgan Chase & Co. Excel** Skills Job Simulation via **Forage** platform - Certified for completing detailed quests & labs **Google Cloud** Career Practitioner Campaign by GDSC IIT Patna	2024 2022
Extra-Curricular	- Earned the **Runner-up** position in **volleyball competition** organized under **Aarambh**, fresher-only event of IIT - Freelanced as **Independent Contractor** at **Chegg** India, authored solutions on range of **computer science** topics - Mentored students at **Mentor Match Private Ltd** in PCM & **Jee/Neet**-related problems through **1:1** video calls - Placed among **top 5% of participants** in the **Adobe Gensolve Hackathon**, competing against teams nationwide - Qualified for Round 2 of the **Facebook Hacker Cup 2023,** achieving an impressive **All India Rank (AIR)** of **862**	2022 2023 2022 2024 2023
Academic	- Secured **2nd city rank** in the **International Mathematics Olympiad(IMO)** by the Science Olympiad Foundation - Achieved outstanding **School rank 1** and **District rank 3** in the All India Senior School Certificate Examination - Accomplished **AIR** of **4762** in **JEE Advanced** & **99.66** percentile in **JEE Mains** among over **1 million** candidates - Selected as **recipient** of **CSRL Super 100**, a free residential **coaching** program sponsored by **GAIL India** Limited	2018 2020 2021 2020