Devansh Kumar

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TECHNICAL SKILLS

- Web Development:
  HTML, CSS, JavaScript
- Frameworks:
  Node JS, Express JS, Bootstrap, AngularJS
- Databases:
  SQL, MongoDB, PySpark,
- Familiar:
  Artificial Intelligence & Machine Learning, Big Data analysis
- Coursework:
  Data Structure and Algorithms, Operating Systems
- Other Tools:
  Git, Microsoft Office Suite, Cmake, Snakemake

LANGUAGES

- Programming Languages:

Java (Proficient)
Python (Proficient)
C (Intermediate)
C++ (Intermediate)

- Spoken Languages:

English (Fluent)
Hindi (Native)
Spanish (Basic)

EDUCATION

Vellore Institute of Technology
Vellore (Tamil Nadu)
B.Tech - Information Technology – 8.09 CGPA (till Semester - VII)
(2020-2024)

Nehru World School
Ghaziabad (Uttar Pradesh)
XIIth Board – CBSE – 82.6%
(2018-2019)

Schiller Sr. Sec. School
Ghaziabad (Uttar Pradesh)
Xth Board - CBSE – 78%
(2017)

CERTIFICATES

Artificial Intelligence Analyst | CEAIAIIN, Provided By IBMCE

Course Completion Date: June 29, 2023

ibmcep.cognitiveclass.ai | Powered by IBM Developer Skills Network

Issued by IBM Career Education Program

Link: IBM certificate

Internship at IntuiComp TeraScience

Completion Date: May 20 - June 30, 2023

Project trainee with project supervisor, Dr Dipanjan Goswami, visiting faculty IITD, AI-ML project consultant in artificial Intelligence. Email id: philanthrop2019@gmail.com

Achievements/Tasks

- PySpark
- PyPSA
- Sensitivity analysis

Link: Internship_certificate

PROJECTS

PyPSA | Python, Machine Learning Model

- *Optimising modern power and energy systems that include features such as conventional generators, transformers, variable wind and solar generation, storage units, and mixed alternating and direct current networks.*
- *Mainly worked on cost optimization of electricity and the clustered path for electric transmission in minimum cost.*
- *We have different file folder interconnected with Snakemake (workflow management) dataset collected from CDS API for latest data about climate and other geo graphical factors.*
- *Skilled in data analysis and building machine learning models.*

RoadSense | Machine Learning Model

- *Implemented an advanced system to detect and recognize traffic signboards in diverse conditions using YOLO object detection algorithm with a CNN approach.*
- *Model designed for automated cars and government surveillance, updating maps for efficient and quick reactions.*
- *Contributed to safer roads and enhanced Intelligent Transport Systems.*
- *Proficient in Python programming and machine learning model development.*

School Management Web App | MongoDB Integration

- *A user-friendly School Management Web Application developed with HTML, CSS, JavaScript, NodeJs, Express, MongoDB, AngularJs, Ajax, and JQuery.*
- *Simplifies administrative tasks, allowing administrators to add teachers and students.*
- *Teachers can log in to record marks and attendance, while students can view their academic progress.*
- *Demonstrates proficiency in full-stack web development and database management.*
- *Enhances educational experiences for all stakeholders.*

Data Wizard: Sensitivity Analysis for Precise Prediction | Machine Learning Model

- *Conducted Sensitivity Analysis for precise parameter predictions.*
- *Overcame small dataset challenges for accurate results.*
- *Utilized clustering and bootstrapping techniques to enhance modeling.*
- *Demonstrated improved accuracy and outlined future research possibilities.*