RAVINDRA PANDEY

Data Science Postgraduate

CONTACT

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ravindra-pandey

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SKILLS

- Apache Spark
- Python
- SQL
- MongoDB
- Azure Databricks
- Microsoft Azure
- Azure Datafactory
- Machine Learning
- Tensorflow
- Pytorch
- Tableau
- PowerBI
- Pandas
- Numpy
- Opencv-python

EDUCATION

MCA Data Science — 2022 - 2024
Dev Sanskriti Vishwavidyalaya - Haridwar, UK (India)

Current Status: got **7.62, 8.4, 8.33** respectively in three semesters.

B.Sc. Applied Mathematics — 2019 - 2022
Dev Sanskriti Vishwavidyalaya - Haridwar, UK (India)

Passed with **7.2 CGPA**.

WORK EXPERIENCE

Machine Learning Mentor — 01/2024-Ongoing
National Institute of Electronics and Information Technology, Haridwar

Training JNV students in Tehri Garhwal on Python and ML.
Increased student engagement & practical knowledge: hands-on coding, interactive notebooks, project simulations (data analysis, prediction models).
Bridged academic-real world gap: dynamically tailored curriculum. Expanding to NLP & Deep Learning modules.
Skills: Python, Pandas, Numpy, Scikit-Learn, Opencv-Python

Computer Vision Intern — 05/2023-08/2023
Center For Artificial Intelligence, DSVV, Haridwar

Engineered an automated Optical Character Recognition (OCR) application utilizing Python and Google Vision API to extract data from legacy student forms, resulting in a 75% reduction in manual data entry time.
Proactively resolved a critical text extraction issue, ensuring 97% accuracy and completeness of data capture from diverse document formats, including [jpg, jpeg, png, pdf].
Skills: Tensorflow, Google Vision API, Opencv-Python, Python

PROJECTS

Diabetic Retinopathy Detection — 10/2023-11/2023
`https://dr-detector.streamlit.app`

Engineered a novel 3-model cascade with ResNet50, achieving 74% accuracy in detecting diabetic retinopathy and its severity.
Strategically enhanced accuracy by 25% through AI-driven image processing, surpassing traditional methods.
Built a user-friendly Streamlit interface for seamless interaction and stakeholder engagement, ensuring robust model management and scalability.
Optimized memory consumption for resource efficiency and proactively managed model versions for reproducibility and continuous improvement.
Skills: Python, Opencv, Streamlit, Tensorflow, ReseNet50

Flask

Streamlit

NLTK

Git

ACTIVITIES

AWGP

1. ZeroT20: Organised a mathematics fest to remove the fear of mathematics from non-mathematics students.
2. Actively contributed to the launch and successful implementation of NIELIT, Haridwar's O Level program for non-technical students at our university.
3. Got a Chance to present a Research Article on AI and be among the Technical team at the yoga conference conducted by Sri Ram Yoga Society.

DSVV, Haridwar

LANGUAGES

English

Hindi

Resume Recommendation System - 24-hour Hackathon Project — 04/2023

https://github.com/ravindra-pandey/hackathon_tulas

Architected and developed a revolutionary system for high-precision skill extraction and matching from resumes.
Expertly applied deep learning layers (imagine a diagram of stacked neural networks) to extract skills with exceptional accuracy and nuance.
Led a rigorous model selection and optimization process, experimenting with various architectures and fine-tuning hyperparameters to achieve 98% precision] in skill identification.
Skills: Python,Opencv,Streamlit,Tensorflow,LSTM, RNN, GRU, NLTK

Question Answer Forum — 04/2023-05/2023

Class Project

Led the design and development of a robust question-and-answer forum, facilitating dynamic knowledge exchange and collaboration among users.
Employed MongoDB for flexible database management and efficient data handling. Integrated Flask as a lightweight and adaptable web framework for seamless user interactions.
Implemented MySQL connector to establish robust database connectivity, ensuring data integrity and accessibility.
Facilitated seamless user interactions: Enabled users to effortlessly ask questions, provide answers, and engage in meaningful discussions.
Skills: Python, Flask, MongoDB

Yoga Pose Recognition — 03/2023

https://github.com/ravindra-pandey/yoga_pose_recognition

Crafted an image-based pose detection model using MediaPipe for landmark extraction and KNN for posture classification, accurately identifying six yoga poses.
Optimized model architecture and parameters for robust pose recognition, demonstrating proficiency in machine learning techniques.
Built a comprehensive dataset of yoga pose images from scratch, ensuring high-quality training data for model development.
Skills: Python, Opencv, MediaPipe, Tensorflow, Sklearn, CNN

Spam Classifier — 11/2022

Architected a robust spam classifier using NLP techniques to effectively distinguish legitimate emails from spam, safeguarding inboxes from unwanted content.
Experimented with diverse Bayesian models and data processing techniques to optimize classifier performance and explore various approaches for optimal results.
Skills: Python, NLTK, Scikit-learn, Streamlit, Text Processing Techniques

CERTIFICATIONS

Machine Learning A-Z — 2023

Udemy

Programming With Python — 2022

Internshala Trainings