

VIKASH KUMAR PRADHAN

📍 Churcha, Chhattisgarh | ☎ +91 9692249358 | 📩 vpradhan2002@gmail.com |  LinkedIn |  GitHub |  Portfolio

EDUCATION

B.Tech in Computer Science and Engineering
Kalinga University (Naya Raipur)

Aug 2021 – May 2025
CGPA – 8.68

Higher Secondary Examination (PCM)
Hind Vidyalaya English Medium High Secondary School (Churcha)

June 2019 – May 2021
Percentage – 94.4%

SKILL

- **Programming Languages:** Python, SQL, C
- **Back-end Framework:** Django, Streamlit
- **Data Visualization & Reporting Tools:** Power BI
- **Database Management:** MySQL, MongoDB
- **Cloud Services:** AWS (S3, Lambda, IAM, Glue)
- **Programming Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn
- **Processing:** ML, Data Analysis, Data Handling, Data Visualization
- **Front-end Development:** HTML5, CSS, React
- **Development Tools:** GitHub

Soft Skills: Critical thinking, Teamwork, Communication, Time Management, Teaching, Problem Solving, Adaptability, Interpersonal skills

PROJECTS

Sentiment Analysis of Video Data using AI

GitHub

- Implemented BERT for text sentiment extraction, LSTM for audio analysis using MFCCs, and CNN for extracting visual emotion features from facial expressions.
- Designed a multimodal fusion AI system to combine outputs from each modality for final sentiment classification with high accuracy.

Technologies: Python, BERT, LSTM, CNN, OpenCV

Serverless Data Transformation Pipeline with AWS

- Built a serverless ETL pipeline to convert CSV files to JSON using AWS Glue and store transformed data in a target S3 bucket for downstream processing.
- Automated the pipeline using AWS Lambda to trigger Glue jobs on new file uploads, enabling real-time, event-driven data transformation.

Technologies: AWS S3, Glue, Lambda, Python

Spam SMS Classification

GitHub

- Built a scalable Streamlit web application for classifying SMS messages as Spam or Ham using natural language processing techniques, achieving 95% model accuracy.
- Implemented a Machine Learning pipeline with text preprocessing, feature extraction, and classification, enhancing detection reliability and user interaction.

Technologies: Python, Pandas, ML, NLP, Streamlit

EXPERIENCE

Data Science Intern, PERSONIFWY

Remote, India

July 2024 – Sep 2024

- Completed intensive training in ML, NLP, DL and core Python libraries (Pandas, NumPy, Matplotlib).
- Developed and deployed data science projects including “Spam SMS Classification” and “Hate Speech Detection” using supervised ML techniques and NLP pipelines.
- Built interactive web applications using Streamlit for real-time user input and result visualization.

AI-ML Internship, Kalinga University

Raipur, India

May 2023 – July 2023

- Gained foundational knowledge in Artificial Intelligence and Machine Learning concepts, algorithms and real-world applications.
- Implemented projects such as “Weather Prediction Analysis” and “Stock Market Prediction Analysis” using supervised learning techniques.

CERTIFICATES

- Programming Essentials for Python - Cisco Networking Academy
- Alteryx Machine Learning Fundamentals.
- Python for Data Science - IBM

[Certificate](#)

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