

# VIKASH KUMAR PRADHAN

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## EDUCATION

<b>B.Tech in Computer Science and Engineering</b> Kalinga University (Naya Raipur)	Aug 2021 – May 2025 CGPA – 8.68
<b>Higher Secondary Examination (PCM)</b> 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 [Certificate](#)
- Alteryx Machine Learning Fundamentals. [Certificate](#)
- Python for Data Science - IBM [Certificate](#)