Nilesh Verma

🛛 me@nileshverma.com 🐛 +91 8120503269 👂 Bilaspur, India 🛛 in Linkedin 🌎 Github 🕅 Medium

SE EDUCATION

M.Sc.	Computer	Science	& Ap	plication

Atal Bihari Vajpayee Vishwavidyalaya

88.95% mark (Gold Medalist)

• 88.95% mark (Gold Medalist)

B.Sc. Computer Science and Application

Bilaspur University
82.54% marks (Gold Medalist)

PROFESSIONAL EXPERIENCE

Data Scientist

Amlgo Labs 🔗

- Working in the automotive industry to create end-to-end AI analytical applications on the AWS Cloud.
- Work on unstructured text data, extracting information (vehicle part names, categories, etc.) using NLP
- predictive modeling techniques and converting it into useful information.Responsible for developing, testing, and deploying information extraction and social media analysis pipelines.

Data Scientist

Xceedance Inc ∂

- Developing **deep learning** and **machine learning** models for **natural language processing** and **computer vision tasks** such as BERT, YOLO, and others.
- Worked on **data extraction** from unstructured raw data such as emails, pdfs, images, and so on, using AI and data mining techniques.

NLP Intern

Ganani.ai ô

- Worked on Speech/Text Analytics and created Natural Language Processing (NLP) models for Regional languages such as Hindi, Tamil, and Marathi.
 Built Conversation AI solution for Multiple Languages.
 Hand different form provide to a support of the languages.
- Used different frameworks to **compare NLP models** and **deployed as an API**.

Data Scientist Intern

J P Data Solution Ltd &

- Engaged in all project lifecycle stages, including requirements/needs gathering, data collection and labelling, data transformation/processing, building & validating models, and deploying working AI/ML solutions.
- Performed **explanatory data analysis (EDA**).

DUBLICATIONS & PATENT

- Bhatia, L., Ghosh, D., Sahu, D. K., Sarangi, P. K., & **Verma, N.** (2022). A device for the production of ethanol from lignocellulosic biomass (German Registration No. 202022102746). The German Patent and Trademark Office. (**Patent Link**) *∂*
- Hota, H., Sharma, D. Verma, N. "Lexicon-Based Sentiment Analysis Using Twitter Data: A Case of COVID-19 Outbreak in India and Abroad". Book title: Data Science for COVID-19 (Elsevier) &
- Dharmendra Dangi; DheerajKumar Dixit; Amit Bhagat; RAJIT NAIR ; Nilesh Verma "Analysing the sentiments by classifying the tweets based on COVID-19 using machine learning classifiers". Conference: TRIBES 2021 (IEEE Xplore) &
- Verma, N. "Classification of Pima Indian Diabetes Dataset using Decision Tree Techniques." International Journal for Scientific Research and Development 7.12 (2020): 114-118. (Published) &
- Verma, N. Kashyap, U. "Development of Depression Identification Decision Support System (DIDSS) Using Machine Learning Approach". Conference: ICIRSMT 2021 (Link) &
- Hota, H., Sharma, D. **Verma, N**. "COVID-19: Machine Learning Methods Applied for Twitter Sentiment Analysis of Indians Before and After Lockdown and During Unlock". Journal: International Journal of Computing Science and Mathematics. (Inderscience Publishers) (In Production)
- Hota, H., Sharma, D. **Verma, N**. "Integration of Deep Learning Techniques for Sentiment and Emotion Analysis of Social Media Data". Journal: International Journal of Intelligent Systems Technologies and Applications. **(Inderscience Publishers) (In Production)**
- Hota, H., Sharma, D. **Verma, N**. "COVIS-Health: Deep Learning and Explainable AI based Expert System for Identification of Covid-19 Infection". (Manuscript submitted)

රිූ CERTIFICATES

Python 101 for Data Science *∂* IBM Cognitiveclass (2020)

Data Science Math Skills ∂ Duke University (2020) **Deep Learning Specialization** *∂* DeepLearning.ai (2020)

Problem Solving ♂ HackerRank(2020) Machine Learning Specialization ∂ WU (2020)

Jul 2018 – Jul 2020

Jul 2014 – Jul 2017

May 2022 – present

May 2021 - May 2022

Feb 2021 – May 2021

Jul 2020 – Dec 2020

UK (Remote Work)

Banglore, India

Gurugram, India

Gurugram, India

Bilaspur, India

Bilaspur, India

OPEN SOURCE CONTRIBUTION

Deep Image Search - AI-Based Image Search Engine @

Deep Image Search is an AI-based image search engine that includes deep transfer learning features Extraction and tree-based vectorized search technique.

AutoWave - Automatic Audio Classification Library @

AutoWave is an complete audio automatic classification library with other features plottings, audio agumentaion, data loading etc.

Deep Text Search - AI Based Text Search & Recommendation System @

Deep Text Search is an AI-powered multilingual text search and recommendation engine with state-of-the-art transformer-based multilingual text embedding (50+ languages).

ACADEMIC PROJECTS

COVIS-Health: Coronavirus Identification System for Health @

Deep Learning, xAI, Computer Vision, Web Development, Healthcare Domain

- It is a web-based COVID-19 Infection Detection System Model using Chest CT-Scan image to classified positive and negative cases with 99% accuracy.
- It provides details about the infection area using Explainable AI techniques.

Human Depression Detection Using Actigraphy & Social Media Data 🔗

Machine Learning, NLP, Deep Learning, Web Development, Psychology Domain

- It is a web-based tool or wearable tool that detects depression in humans using Actigraphy data in 1 hour of periods activities and provides information about a patient having depression or not.
- Social media data, A Text and Voice Search-Based Depression Detection Model using social media data that detect the Depression and also explain which words having more impacts on increasing depression.

യ്യ ACHIEVEMENTS

- Recognization of being placed 3rd in AppScript, A 48-Hours Hackathon Conducted by IEEE APSIT on 6-7th Feb 2021.
- Secured 1st rank in The Great Indian Hiring Hackathon (Nov-20) based on Foretelling the Retail Price Host by MachineHack.
- Achieved 1st rank in Data Sprint #16: Electronic Products Pricing Hackathon (December 2020) hosted by DPhi.
- 1st rank in Robotics, Big Data, and Android Application Development university-level workshop.
- Various state-level news covers the development of real-time covid-19 detection through CT-Scan software.
- Clear NTA-NET exam on the first attempt and eligible for assistant professor in all over India.

SKILLS

Language

Python, C++

Tools

Jupyter Notebook, Microsoft Visual Studio Code, Spyder, Anaconda IDE, Google Sheet, Excel, Web Scraping.

Visualization Seaborn, Plotly

る OTHER ACTIVITIES

- Lifetime member of Indian Science Congress Association. (Link &)
- Delivered a Seminar on Natural language processing on High-End Workshop on Natural Language Processing with Deep Learning: Application and Research Direction. (Link @)

- እር REFERENCES

Dr. H.S. Hota, Professor & Head, Department of Computer Science & Application, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, (C.G.), India – 495220 proffhota@gmail.com

Dr. Rashmi Gupta, Assistant Professor,

Department of Computer Science & Application, Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, (C.G.), India – 495220 rashmi.kvk@gmail.com

LANGUAGES

• English

• Hindi

Frameworks

Pandas, NumPy, Scikit-learn, Keras, BeautifulSoup, NLTK, Spacy, OpenCV, TensorFlow, Flask, RASA ChatBot, Pytorch, FastAI

Upskilling

MLOps, AWS Cloud, NoSQL(MongoDB), SQL

Mar 2020

Apr 2020