RAJAT KUMAR SINHA

Gen AI | NLP | Computer Vision | Data Science

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Linkedin Github

TECH STACK

Python | spaCy | NLTK | TensorFlow | PyTorch | BERT | GPT-3/GPT-4 | Vicuna | LLAMA | LLAMA2 | DollyV2 | OpenCV | GAN's | ONNX | Tensorboard | Pandas | Numpy | Matplotlib | Seaborn | Plotly | Cytoscape | Dash | Flask | AWS | Azure | Docker | Database | Git | PowerBI | C

EXPERTIZE

Text Analytics/Generation | Deep Learning | Image/Video Processing | Object Detection | Image Classification | Image Segmentation | Facial Recognition | Supervised Learning | Unsupervised Learning | Recommendation System

ACHIEVEMENTS

- Received two performance awards for exceptional contributions in **Evalueserve Pvt. Ltd.**
- Published paper on ***Deep learning for Computer vision tasks : A review*** in **I2C2, 2017.**
- First Prize in **SMART INDIA HACKATHON 2017** under **ministry of Earth Sciences** for **Video Compression algorithm.**

ABOUT ME

Experienced Data Scientist with 6+ years in Text Analytics, Computer Vision, and Machine Learning. Proven success in diverse projects across Banking, Logistics, Healthcare, Sports, Gaming, and Retail. Specialized in advanced text and image analytics. Proficient in cloud technologies, including Azure ML, and AWS.

EXPERIENCE

Consultant | Evalueserve Pvt. Ltd.

Apr, 2020 – Current Gurugram, Haryana

- **Document Search and Question-Answering System** - Developed a Document Search and Question-Answering System, connecting it with the Vicuna, Llama, and Llama2 (tested) LLM model for enhanced accuracy, utilizing advanced text analytics techniques.
- **Personalized Banking Chatbots: RASA with LLM Integration** - Developed banking chatbots with RASA, integrating Vicuna 7B and Llama2 models. Enabled effortless access to transactional details and personalized financial insights, providing valuable assistance to bank customers.
- **Alzheimer's Disease Research Toolkit** - An advanced tool for Alzheimer's Disease researchers, combining NER, Topic Modeling, Summarization, and paper similarity. Seamlessly explore related research, accelerating their discoveries.
- **Email Classification** - Trained a BERT model to classify emails and streamline their routing to different departments for Logistics client.
- **Deep Learning for Dimensional Analysis and Trailer Space Optimization** - Optimized logistics with TensorFlow, PyTorch, and OpenCV for consignment analysis, enhancing efficiency. Implemented deep learning in Python to calculate remaining trailer space, revolutionizing optimization. Improved accuracy in consignment measurement through computer vision.

Computer Vision Engineer | Sizzle.gg

Sep' 2019 – Mar' 2020 Bengaluru, Karnataka

- Applied Deep Learning and Computer Vision techniques, including the utilization of pre-trained models such as YOLO, ResNet-18, VGG16, and InceptionV3, to process Twitch stream data. This approach enabled the generation of automatic highlights and extracting specific moments from Twitch streams for online gaming enthusiasts, enhancing the overall viewing experience.

AI/ML Research Engineer | Nanoyotta Technologies

Dec' 2017 – Sep' 2019 Chennai, TamilNadu

- Implemented real-time brand detection across diverse sports, leveraging deep-learning frameworks (YOLO, Caffe, Caffe2, Tensorflow, Keras, PyTorch) to calculate sponsorship ROI for brands in major events like FIFA, IPL, PKL, and F1 Races. Insights from the ROI analysis informed strategic decisions in logo placement, proving crucial for optimal brand visibility and impact in the dynamic sports sponsorship landscape.

EDUCATION

M.Tech in Computer Science and Engineering | IIIT, Bhubaneswar

Aug' 2015 – Jul' 2017 Bhubaneswar, India

- CGPA: 7.97

B.E. in Electronics and Telecommunication | SSITM, Bhilai

Jun' 2011 – May' 2015 Bhilai, India

- CGPA: 8.44