

SAROJ BASNET

ML | DS Researcher/ Engineer

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tsuyog

pvsnp9

Regina, Canada

ML | DS

Feature Eng/Selection
Hyper-parameter Opt
Model Dev/Eval EDA
Data Viz RNN GRU
LSTM Attention CNN
Transformer RIM-D

SOFTWARE ENG

python Golang Nodejs
gRPC RESTful APIs
Lambda MySQL PgSQL
Microservices Docker
K8s AWS Cloud CI/CD
Linux _sh Agile
Scrum Jira

TOOLS

AWS SageMaker PyTorch
Numpy PySpark
Matplotlib Pandas
Power BI Seaborn
SK Learn

EDUCATION

MSc Computer Science
(Research)

UofR, Canada

BSc Information Tech-
nology

Wel-Tec, New Zealand

PUBLICATION

RIMD:A Novel Method for
Clinical Prediction.
AI In Medicine, Else-
vier.

EXPERIENCE

Machine Learning Researcher | Data Science Laboratory

07 2020 - 04 2022

Regina, Canada

- Performed data extraction, feature engineering, and feature selection on the large clinical data set (MIMIC III).
- Analyzed and visualized clinical data.
- Developed a new RIM-Decay model for mortality, and Length of Stay Forecasting (Published in AI in Medicine Special edition)

Programmer Analyst - Research (IS) | UofR

10 2021 - 11 2022

Regina, Canada

- Developed a sentiment classifier for survey responses and integrated it into existing Moodle for clinical psychological research.
- Data collection from Qualtrics, data preprocessing, and creating reports.
- Psychological data, cleaning and reporting. Document to data using Optical Character Recognition on survey data.
- Worked on feature development for Online therapy unit built on microservices architecture

Sr. Software Engineer | CyaLive

11 2022 - 09 2023

Toronto, Canada - Remote

- Golang, GStreamer, Javascript, MySQL, Redis, Etcd, SQS, Websocket, WebRTC, TCP/UDP, Kubernetes Jenkins, CI/CD
- Implementing media (audio/video) mixing using GStreamer and broadcasting in a media server.
- Developed and maintained a load balancer to scale the media server.
- Developed and maintained a Chrome extension to host watch-party in applications for major OTT, and collect data.

Research Intern | KRATE Distributed Information Systems

10 2020 - 05 2021

Saskatoon, Canada

- Developed a prototype model over encrypted data using cryptography, and distributed computing.

Lead Software Engineer | HiUp Solutions Pvt. Ltd.

03 2017 - 12 2019

Ireland, HQ

- Led team of seven people to develop and maintain LMS.
- Developed Zoom-like online learning platform using Twilio, and Websocket.
- Developed middleware for API authentication, validation, and response.
- Designed and developed Travis CI/CD in AWS elastic beanstalk, docker-hub.
- Performed System analysis and design [distributed systems]