LT CDR BHUVAN KUMAR KUSHAL, PMP, CSM

A result-driven, collaborative leader with strong communication, analytical & management skills and a passion for producing optimized results. Seasoned professional with 02 years of IT work experience at Infosys ltd and 10 years at Indian Navy. Experienced in Data Science, Project Management and IT services.

Work Experience

Senior Project Manager, Indian Navy   (2012 –2022)

- Led a team of 20 personnel in **designing and developing** a multi-crore worth marine forecast and 3D visualisation software for providing tactical aid to 125 Indian Naval Ships, Submarines and 09 Air Stations for operations.
- Led a team of Meteorologists to carry out **Operational Data Analysis**, post processing of Numerical Weather Prediction (NWP) model outputs, satellite data and **Machine learning** in Python for Naval operations.
- Developed **risk mitigation** procedures/safety protocols for flooding at Port Blair International Airport by carrying out a detailed Analysis to ensure safety of aircrafts and assets with **100% success rate**.
- **Spearheaded the Network Monitoring Centre of Indian Navy**, directed and led a technical team of 20 personnel to ensure seamless availability of Naval Wide Area Network and Naval Satellite communication network for all naval units including ships and establishments.
- Successfully executed the first **real-time Telemedicine trials** over GSAT-7 satellite network on-board Indian Naval aircraft carriers.
- **Conceptualised and developed a web application** in PHP and My SQL for centralized accounting and handling of signal communication of entire Western Naval Command with up to 500 users.
- Achieved simultaneous **overnight upgradation of network devices and protocols** across Navy and thereby reduced the downtime by **80%**.
- Planned and executed project worth **Rs 10cr** for provision of **seamless satellite network connectivity** to Naval Ships at Sea and Harbor.

Systems Engineer, Infosys   (2010– 2012)

- Performed stabilisation and bug fixes for Finacle 10.2 x versions. Debugged live issues of application hosted on Unix server by simulating them locally and resolving issues in the code using C/C++, Java coding expertise.
- Extensively used SQL for data handling including data manipulation.

Projects

Spam Mail Detection
- Spam mail detection implementation using Multinomial Naive Bayes model and Hyperparameter tuning using GridSearchCV. End to end implementation and deployment of the web application on the AWS and Heroku platform.
- https://github.com/bhuvankk/Spam_mail_detector - Github   Repository
- http://ec2-54-160-214-56.compute-1.amazonaws.com:8080/ - AWS link

Forecasting a cyclone track using Weather Model Output model output in Python
- Project to identify the best physical schemas for forecasting cyclone tracks over Indian Region.
- https://github.com/bhuvankk/Plot-Cyclone-track-from-WRF-output   -Github Repository

Exploratory Data Analysis performed on IPL dataset using Python
- Exploratory Data Analysis (EDA) carried out on IPL dataset from 2008 - 2018. Data preprocessing and Visualisation using Numpy, pandas, seaborn and matplotlib.
- https://github.com/bhuvankk/EDA-on-IPL-dataset - Github Repository

Personal Info

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Education

- Business Management Program, IIM Trichy
- MSc (Applied Meteorology), CUSAT
- BE- Computer Science, NMAMIT
- PGP in Data Science and AI, INSAID

Key Skills

- Project Management
- Data Science
- AI/ Machine Learning
- Python
- Agile
- SQL
- Tableau
- Web Development

Certifications

- Project Management Professional PMP®
- Certified **Scrum** Master - CSM®
- **AWS**-Certified Cloud Practitioner
- Global certificate in **Data Science** and **AI**, *INSAID*
- **Python, SQL** certification, *Hackerrank*
- IBM Certified Database Associate, DB2 9 Fundamentals
- Numerical Weather Modelling and Post processing in Python, *School of Naval Oceanology and Meteorology*