**GOPALAKRISHNAN KUMAR**

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**Summary:**  
Highly experienced Consultant Data Scientist with 8+ years of expertise in delivering data-driven insights and machine learning solutions across various industries, including finance, healthcare, retail, and bioinformatics. Proven track record of working with stakeholders to identify business challenges and build scalable AI solutions.

**Core Competencies:**

* Machine Learning, Deep Learning & Artificial Inelligence
* Programming: Python, R, SQLMySQL workbench
* Python Libraries : Numpy, Panda, Matplot Lib, Seaborn
* ML Algorithms –Decision Tee, Random forest, Supervised and unsupervised Learning
* Data Visualization: MatLab. Tableau, Power BI, Advanced Excel
* Cloud & Big Data: Google Cloud, AWS, MySQL Workbench
* LLMs & Generative AI, Retrieval-Augmented Generation (RAG), Deep Seek AI, AI Grok, Eleven Labs, Chat GPT, Canva, Apollo.ai
* Sentence tokenizer using Natural Language Processing ( NLP)
* Bioinformatics Skills - R, PERL, Blast ⟡Operating System – LINUX Ubuntu
* Domain Expertise: Healthcare Analytics, Bioinformatics, Financial Modeling

**Professional Experience:**

* **Outlier.ai — Math AI Trainer (Contract)**: Adopted the Sentence Tokenizer in AI models for client-specific use cases. (Nov 2024 – Present)
* **GLV Data Solutions Consultancy, Mumbai — Consultant Data Scientist**:
* Developed AI models for client-specific use cases in healthcare and finance using LLMs and generative tools. Executed end-to-end data science projects for SMEs using AI, ML, and Generative AI tools. (Oct 2023 – Present)
* **Hansa Cequity Pvt. Ltd., Mumbai — Consultant Data Scientist**:
* Designed ML models for Customer Segmentation, Loyalty Index, and Market Mix Modeling. (Mar 2022 – Jul 2022)
* **RGN Price & Co- Chartered Accountants, Mumbai — Data Analyst**:
* Processed commercial data using MS Excel, MS Access (Dec 21 – Feb 22)
* **INNODATATICS Inc**: Worked on machine learning projects in health care domain using Python ,R, and Machine Learning Algorithms , risk factors (May 2020 – Dec 2021)
* **SMAC Consultancy, Mumbai (Jan 2020 to May 2020)**

Worked on Project related to Commercial Data Analysis and Management studies using

p-value analysis, Chi. Square Testing, Auto Report for Data Analysis

* **Hydrogreen Agribusiness & Land Cultivators** –**(April 2019-December 2019)**

Worked on Plant Leaf analysis ,Detection of Plant health using hyperspectral image processing, and analysis using MATLAB, R,Python

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* **Cytel Statistical Software & Services Pvt Ltd, Navi Mumbai (June 2018 – Mar 2019)**

Worked on CRFAnnotations,QC of SDTM Datasets Development, QC of LB Dataset generations, QC of SDTM Tables

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* **Central Drug Research Institute, Lucknow (Feb 2017-March 2018**

Worked on –Analysis of Human Genes, Nf 1 Genes using PERL ,Blast ⟡Operating Systems- LINUX, Ubuntu

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* **ArrayGen** Technologies Pvt Ltd,On Site Pune (May 2016-Oct 2016)

Worked on Bioinformatics Project is: Conducted statistical analysis in on Genomics and Gene Expression research data to test hypotheses and draw meaningful conclusions.

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**Projects:**

**Domain: Health Care Projects**

* Risk Factors influencing diabetes type-Classification Model
* Data Exploration and Forecasting on Patient Count -Regression ARIMA Model
* Infant mortality rate analysis--Regression ARIMA Model
* Mortality Risk Analysis - Feature Selection
* Survival Analysis of Unemployment Rate - Classification Model
* Covid-19 Medical Analysis Dashboard
* Pneumonia Detection from Chest X-ray Images Using CNN
  + Teeth Segmentation using Image Processing in Python
  + TNF-α Signaling Pathway Simulation Using Systems Biology

**Domain: Other Commercial Projects**

* Stock Market and Mutual Fund Analysis using ARIMA and Random Forest
  + Sales, Inventory and Retailer analysis using Tableau Dashboard
  + Credit Card Fraud Detection with Anomaly Detection
  + Customer Support Chabot for a Retail Store
  + Telecom Customer Churn Prediction
  + Taxi App Analysis of trips, revenue generation
* Analysis of the public review of the products on Social Media-Domain: E-commerce with the use of API
* Loan Eligibility Prediction – Classification Model
* Emotion Detection from GoEmotions Dataset Using BERT and Data Visualization
  + Handwritten Digit Recognition Using Convolutional Neural Networks (CNN)
* Optical Character Recognition (OCR) using Deep Learning
* FAQ Bot for a Small Business Website – Dataset Analysis and Visualization Report
* Healthcare Symptom Checker Bot

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**Education:**

* M.Tech in Chemical Engineering (Systems Biology) – IIT Bombay (CPI: 8.59)
* B.Tech in Oils, Surfactants & Oleochemicals – ICT, Mumbai (First Class: 61.20%)
* Gate Exam: Secured Rank AIR 41 / GRE Exam Score 305/340

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**Certifications:**

* Training in LLM Tools & Generative AI Training, Analytics Vidhya (Ongoing)
* Advanced AI & ML Certification, E&ICT Academy – IIT Kanpur (2022–2023)
* Data Science Architect Masters Program, IBM Certified – Intellipaat
* AI for Business Growth, NSDC – Skill Arbitrage (Grade A+)
* AI Tools Mastery Program and Effective Prompt writing in Chat GPT conducted by be10X
* Multiple Job Simulations Completed – Goldman Sachs, HSBC, Citi, Tata Cybersecurity on Forage

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**Awards & Publications:**

* Research paper publication in PLOS One Journal: Noise Propagation in Two-Step Series MAPK Cascade Link :[**https://doi.org/10.1371/journal.pone.0035958**](https://doi.org/10.1371/journal.pone.0035958)
* Secured INRIA International Internship Award, INRIA, Paris, France
* Kaggle – 10+ Bronze Medals, “Notebook Expert” Badge

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**Personal Details**

* Date of Birth: 29th July 1986
* Marital Status : Single
* Languages: English, Hindi, Tamil, Marathi.
* Hobbies: Playing Violin, Participating in coding competitions
* Linkedin : https://[www.linkedin.com/in/gopalakrishnan-kumar-a73301110/](http://www.linkedin.com/in/gopalakrishnan-kumar-a73301110/)
* Github:<https://www.github.com/Gopalakrishnan-Kumar/>

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I hereby declare that the information given is true to the best of my knowledge and belief.

Place: Mumbai