Pankaj Kumar

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EDUCATION

DUAL DEGREE, IIT KANPUR
Major in, Mathematics & Statistics
Minor in, Computer Science
CPI - 9.3/10| 2015 - 2020

COURSEWORK

COMPUTER SCIENCE
Data Mining
Machine Learning
Fundamentals of computing
Principles Of Database Systems
Data Structures and Algorithms

MATHEMATICS
Non-Linear Regression
Bayesian Analysis
Applied Stochastic Processes
Probability and Statistics
Linear Algebra
Ordinary Differential Equations
Partial Differential Equations

SKILLS

PROGRAMMING

Languages
• Java • C/C++ • Python

Frameworks & Libraries
• Spring Boot • Drop Wizard

Databases
• MySQL • MongoDB
• Influx DB • Redis

Message Queues
• Kafka • SQS • Rabbit MQ

AWS
• EC2 • Route 53 • S3
• Lambda fxn • Cloud Watch

Deployment
• CI/CD • Jenkins
• Docker • Kubernetes
• Git • GitHub Actions

Tools
• Junit • Mockito • Maven
• JPA • Hibernate

OTHER SKILLS
• System Design • OOP
• Grafana, Newrelic

EXPERIENCE (2.2 YEAR)

CLEARTAX | Software Engineer | Bangalore, India
Aug 2020 - Present | GST Team
- Led the design and development of multiple enterprise-level micro-service applications, driving **1 M** dollar of revenue every year using latest technology
- Designed and implemented highly **reliable** (stable, scalable & secure) applications that serve more than **1K** requests per day.
- CI/CD setup, code reviews, load testing, unit/integration/e2e testing.
- Maintained monolithic legacy code, **optimized** various db queries to reduce api latencies, migrated monolithic system to micro-services
- Features implemented in monolithic: Integrated many **Govt APIs** with Clear software, GSTR forms validation service, Notification service, Licensing service
- Worked as a system and customer on-call, given L2 training, provided various retools and automated many process which decreases ticket velocity.
- **Designed, Planned & Developed** GSTR forms from scratch and deployed to production, which is the primary source of revenue under GST product in clear
- **Tech Used**: JAVA | DropWizard, SpringBoot | Kafka, SQS | Jenkins, Docker, kubernetes | MySQL, MongoDB, InfluxDB, Redis | Grafana, GitHub Actions

PROJECTS

TAXI FARE PREDICTION | Course Project, Prof. Faiz Ahmed
May 2019 – July 2019 | IIT Kanpur, India
- Designed model which predicts fare on various factors, with optimal accuracy
- Performed EDA on data using data visualization tools and techniques
- Employed Linear regression, Lasso, Random Forest and Artificial Neural Network models on the pre-processed data
- Model predicted fare with error $\pm5\%$ compared to actual fare predictor device

FAKE NEWS DETECTION | Prof. Arnab Bhattacharya
Jan 2019 – May 2019 | IIT Kanpur, India
- Designed model to classify articles as real or fake and act as a filter for articles
- Performed pre-processing, tokenization, word stemming to convert text documents into features vector using NLTK
- Used feature set as a body text, title, body + title, and applied Logit, Naïve Bayes, ANN, and Support vector machine for classification
- Compared results obtained from different classification technique, out of which SVM gave an average accuracy of 93%

ACHIEVEMENTS
- **Spot Award Winner**: For exemplary work done in licensing service project
- **Academic Excellence**: Received A* grade for exceptional performance in various courses in undergrad and postgrad
- **Award Winner**: Received school topper award for getting 10/10 in cbse board

VOLUNTEER EXPERIENCE
- Mentored fresh graduate in programming, mathematics behind ML models, career advice, coding interview prep, professional portfolio
- **Numerical Computations**: Taken doubt clearing session, designed and reviewed programming assignments for the course consisting of 100+ students.