

CONTACT

+91- 7009368636

pabbikarun@gmail.com

linkedin.com/in/karunpabbi

github.com/karunpabbi

Bangalore

EDUCATION

M.Tech. - Data Science and Engineering, BITS Pilani (2022 – 2024)

B.Tech. - Computer Science and Engineering, Punjabi University (2015 – 2019)

Non-Medical(CBSE - SSCE), BCM Arya Model School (2014 – 2015)

AREAS OF KNOWLEDGE

Data Science	●●●●●
Project Management	●●●●●
LLM architectures	●●●●●
Agile Methodologies	●●●●●
Risk Analysis Frameworks	●●●●●
Cloud Computing Architectures	●●●●●
AI ML Implementation Over Cloud	●●●●●
Data Security Protocols	●●●●●
Performance Metrics Evaluation	●●●●●
Stakeholder Communication Protocols	●●●●●
transformer models	●●●●●

TECHNICAL SKILLS

Programming Stack: Python 3, Data Science, Django, AWS Cloud, Data Structures, REST API's, ETL	●■■■■■
Databases: SQL, Oracle EE, MongoDB, Redis.	●■■■■■
CI-CD DevOps: Docker, Kubernetes K8S, Git, SCM, Jenkins	●■■■■■
Libraries and Tools: Matplotlib, Scikit-Learn, Pytorch, TensorFlow, Keras, Tableau, MS Excel	●■■■■■

SOFT SKILLS

Communicator	●■■■■■
Problem Solving	●■■■■■
Active Listener	●■■■■■
Negotiation	●■■■■■
Relationship Building	●■■■■■
Collaborative	●■■■■■

KARUN PABBI

Data Science | Machine Learning | Project Management

JOB OBJECTIVE

Pursuing impactful roles in Data Science and Software Engineering, leveraging nearly 5 years of expertise in Enterprise Application Development, Data Science, and AWS. Passionate about driving organizational growth through challenging projects and niche tech stacks.

PROFILE SUMMARY

- Currently excelling as a **Data Scientist at JP Morgan**, actively participating in developing Anomaly Detection Models and optimizing margin requirements modules over AWS Cloud.
- Proficient in **Python, Pandas, NumPy, Natural Language Processing, BERT, LLM, SQL, NoSQL, Exploratory Data Analysis, ETL** and various analytical libraries, contributing to the enhancement of decision-making capabilities in securities trading.
- Successfully implemented **LLMs to support Front Office in resolving daily EOD Reporting needs**, showcasing a proactive approach to problem-solving.
- Skilled in Data Structures, **REST API's, ETL, Oracle EE, MongoDB, Redis, Matplotlib, Scikit-Learn, Pytorch, TensorFlow, Keras, Tableau, and CI-CD DevOps** tools.
- Knowledgeable in developing Logging Libraries, Lambda functions, and serverless architectures using AWS services for efficient data processing and insights extraction.
- Recently achieved a 60% reduction in customer onboarding time through the development of BPD utility and microservices-based CRM and WMS modules.
- Actively pursuing opportunities to apply expertise in Data Science, Project Management, and Automation to drive impactful results for organizations.

PROFESSIONAL EXPERIENCE

Jun'22- Present

Data Scientist- Trade Risk and Analysis | JP Morgan, Bangalore

Key Responsibilities

- Developing Anomaly Detection Models and integrated NLP tokenization into the ART application to detect inaccuracies in margin stamping, resulting in a reduction of 40-45 percent in trader support ticket volume.
- Leading the overhaul of the NCMR project, implementing Clustering and multi-threaded pipelines on AWS Cloud. This optimization reduced execution time to one-third and mitigated margin miscalculations by 60 percent.
- Designing the initial model of DB-Browser 3.0, an Association Rule Mining Based in-house DBMS layer, meaningfully decreasing report generation time for the operations team from 18 hours to 4 hours.
- Contributing to the development and enhancement of Athena, a Trading and Risk Analytics Platform, collaborating with a team of 8 individuals and utilizing Python, Pandas, NumPy, and various analytical libraries.
- Participating in designing LLMs to establish a support framework for the Front Office (FO), aiming to resolve 90 percent of their daily queries using transformers, nltk, and financial generative modeling techniques.

Jun'21- Jun'22

Data Analyst- Data and Modernization | Thomson Reuters, Bangalore

Key Responsibilities

- Crafted Log Analysis Libraries employing Python, Threading, Pattern Recognition, Classification Modeling, and Tagging to streamline log statements and expedite insights extraction. This process involves triggering alerts based on identified patterns and classifications using AWS SQS.
- Implemented Lambda functions for GCS to proficiently summarize and tokenize multiple datasets simultaneously using Python, Threading, and Context Manager (thread local instances). This incorporates Natural Language Processing, ETL, and AWS Step Functions, resulting in a significant reduction in runtime per lambda from 624ms to 357ms.

PROJECTS

- **MyAssetBank:** Predictive Model and Sentiment Analyzer for all the Indian listed stocks. Done as part of final semester submission for Masters. It offers end to end investment Analysis stack with prebuild models which can be customized, and res scored as per individual needs
Proficiencies: Python, LSTM, Sentiment Analysis, Data Analysis, NumPy, Pandas, NLP, BERT, Django, Django REST, Bootstrap, Redis, MongoDB.
- **Equity Stock Analysis:** Constructed a stock analysis platform using Django and Data Analysis techniques with BSE Datafeeds integration.
Proficiencies: Python, Neural Networks, Clustering, NumPy, Pandas, Django, Redis, MongoDB.
- **Image Recognition Model:** Developed and trained a real-time video monitoring model for CCTV feeds.
Proficiencies: Python, Data ETL, TensorFlow, Keras, Python Image Library, OpenCV.
- **E-Commerce Website:** Created an E-Commerce Website with OWASP TOP 10 protection and integrated Cart Facility.
Proficiencies: HTML, PHP, SQL, CSS 3, JavaScript, Bootstrap, jQuery.

CERTIFICATIONS / AWARDS

- AWS Certified Cloud Practitioner
- Machine Learning Artificial Intelligence - Professional /Collabera TACT
- CI/CD with Jenkins Ansible Docker Kubernetes/Udemy
- Ranked 4th out of 50000 in Infosys Global Innovation Hackathon in ML – ABN Amro
- Ranked 3rd in Innovate Hackathon – Microsoft Bangalore for Emerging Tech

PERSONAL DETAILS

Languages Known: English & Hindi
Address: Bangalore

- Designed Applications for GCS leveraging serverless architecture with AWS Lambdas, Cloud Formation, S3 Buckets, AWS RDS, and Code Pipelines for CICD. This approach facilitates vertical scaling and reduces costs by 30-40 percent compared to cloud servers and 50-60 percent compared to on-premises servers.

PREVIOUS EXPERIENCE

Systems Engineer - Finacle Development and Automation | Infosys Ltd., Bangalore | Aug'19 – Jun'21

TRAININGS

Data Science Professional/IBM Coursera

Skills: Data Methodologies, Model Training, Jupiter Labs and Notebooks in Python, Requirement Analysis, Data Collection, Data Analysis with Python.

Web Development/ Internshala

Skills: SQL, CSS, Bootstrap, PHP, HTML

Artificial Intelligence & Machine Learning / Collabera

Skills: Python, ML Models, Data Cleaning, Data Preprocessing, NLP, Data-Structures, Algorithm-Design

LEADERSHIP AND COMMUNITY CONNECT

- Member - SII Council/Thomson Reuters-Present
- GDG Bangalore Community Member/2019-Present
- Self-Governance Team Member /Infosys (2019)
- Student Placement Representative /Punjabi University (2016-2019)
- Campus Ambassador - Punjabi University /AICRA (2017-2019)